



BEST AVAILABLE COPY

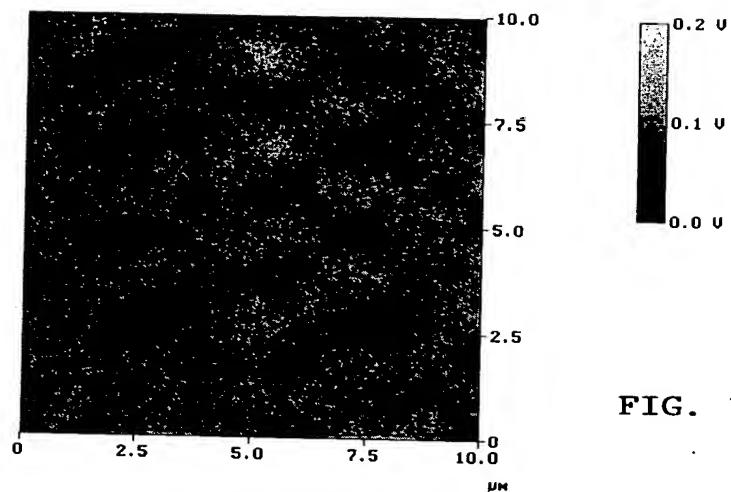


FIG. 1A

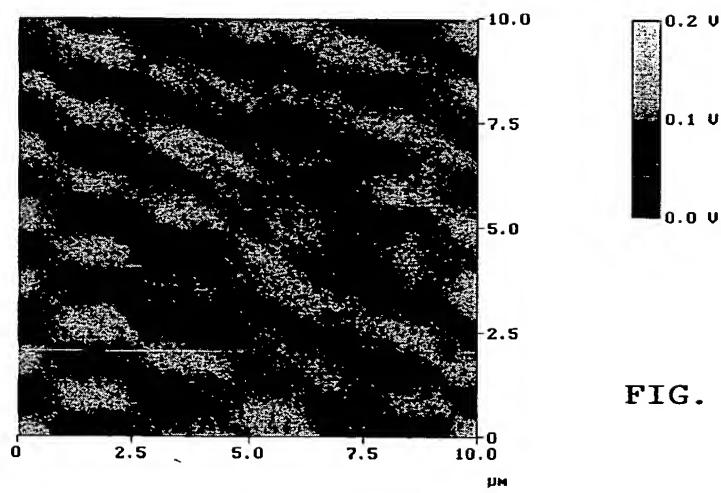


FIG. 1B

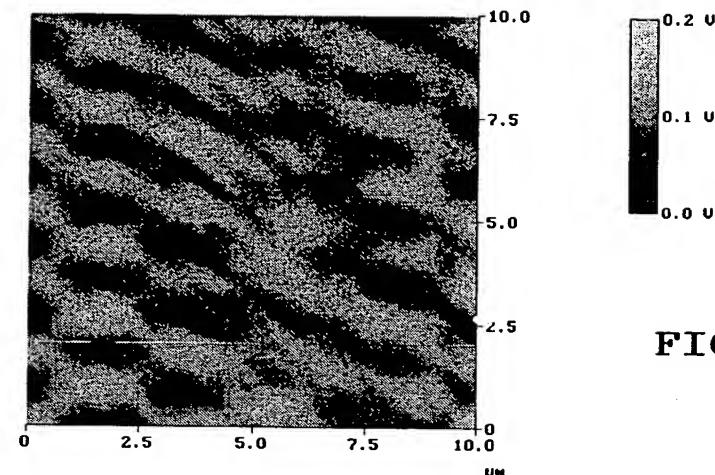


FIG. 2A

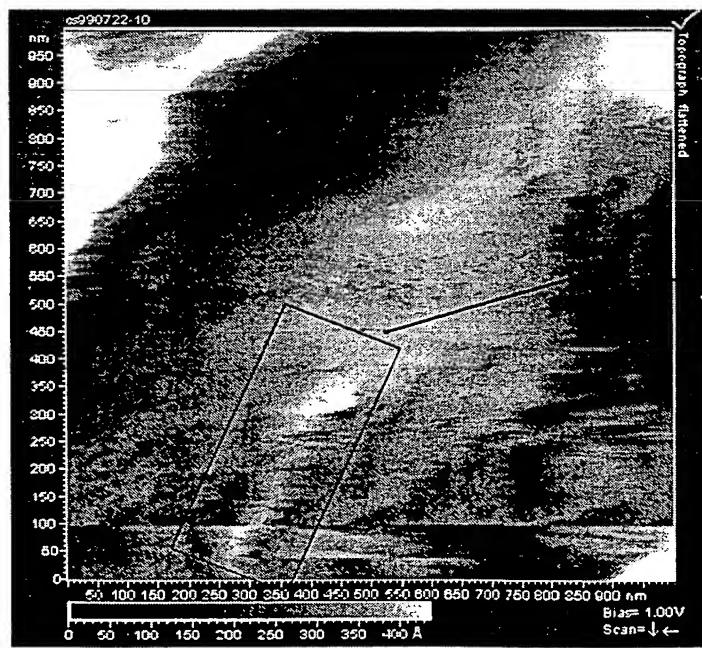


FIG. 2B

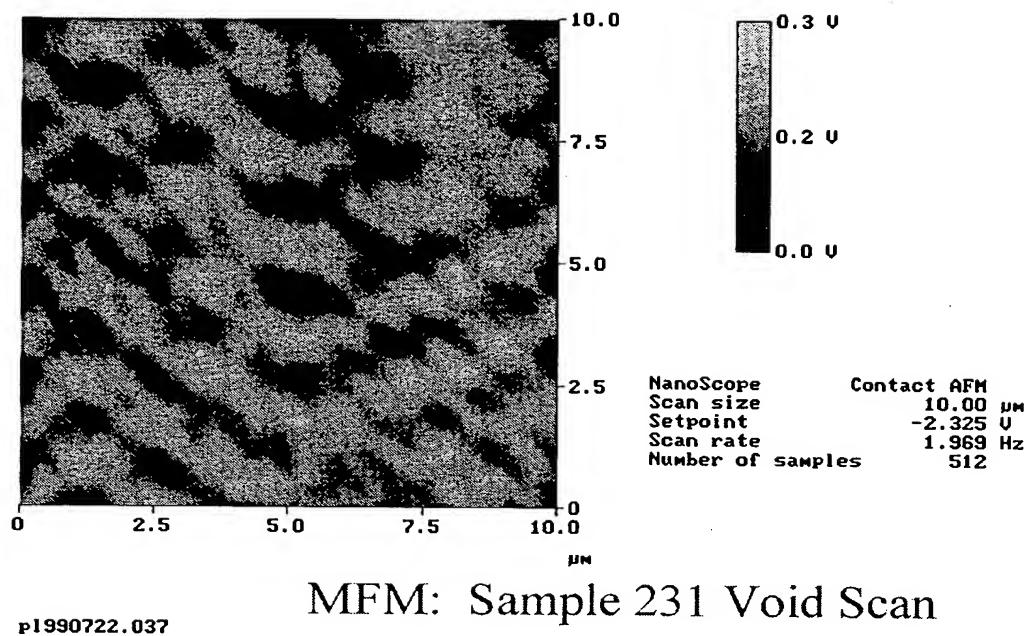


FIG. 5A

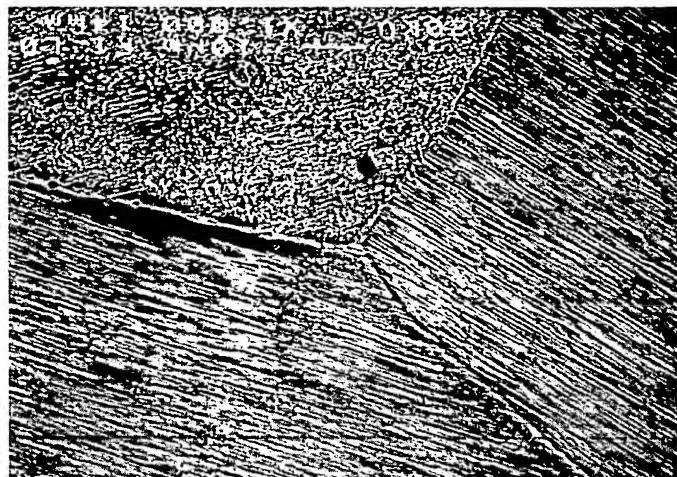


FIG. 18A

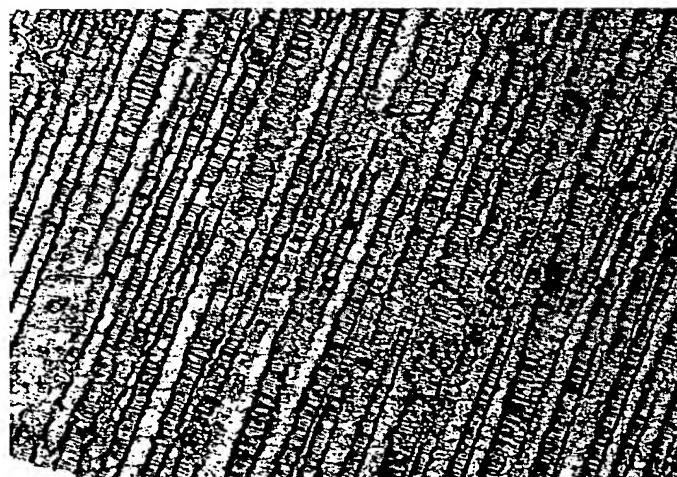


FIG. 18B

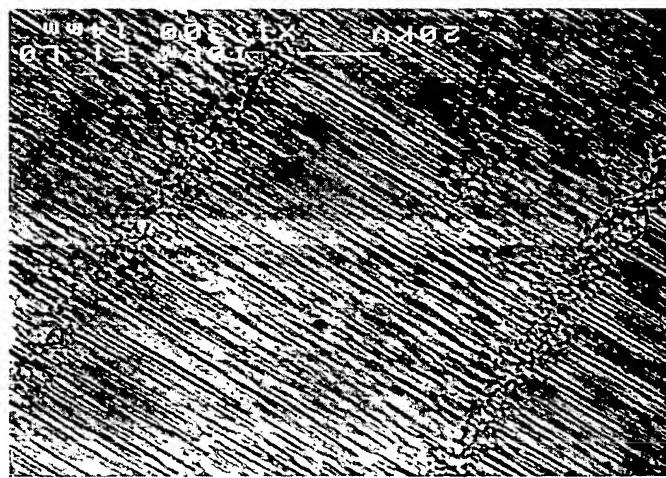


FIG. 18C

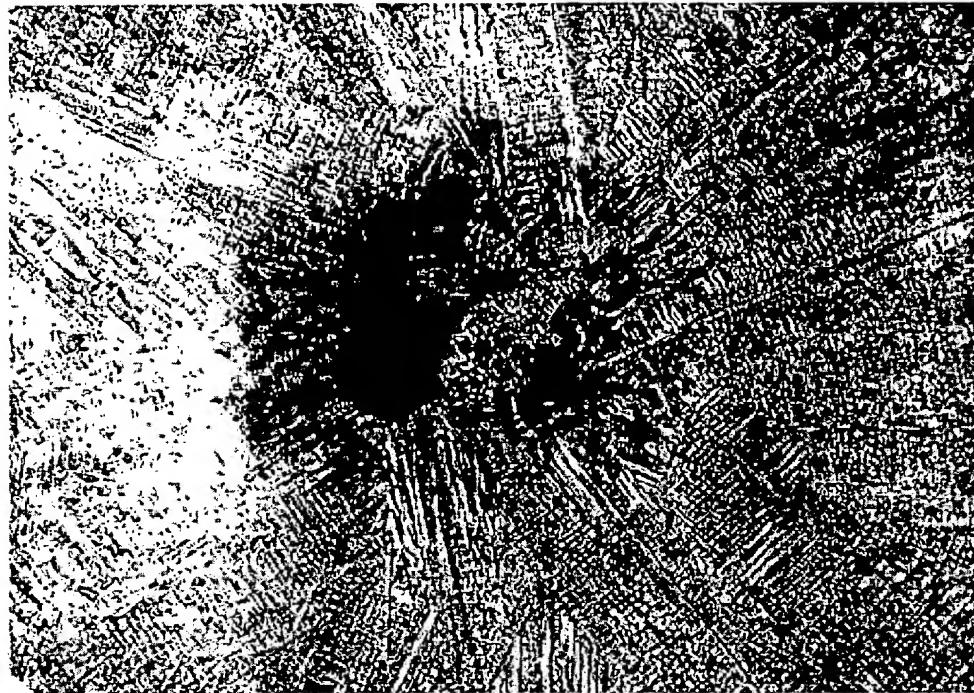


FIG. 19A



FIG. 19B

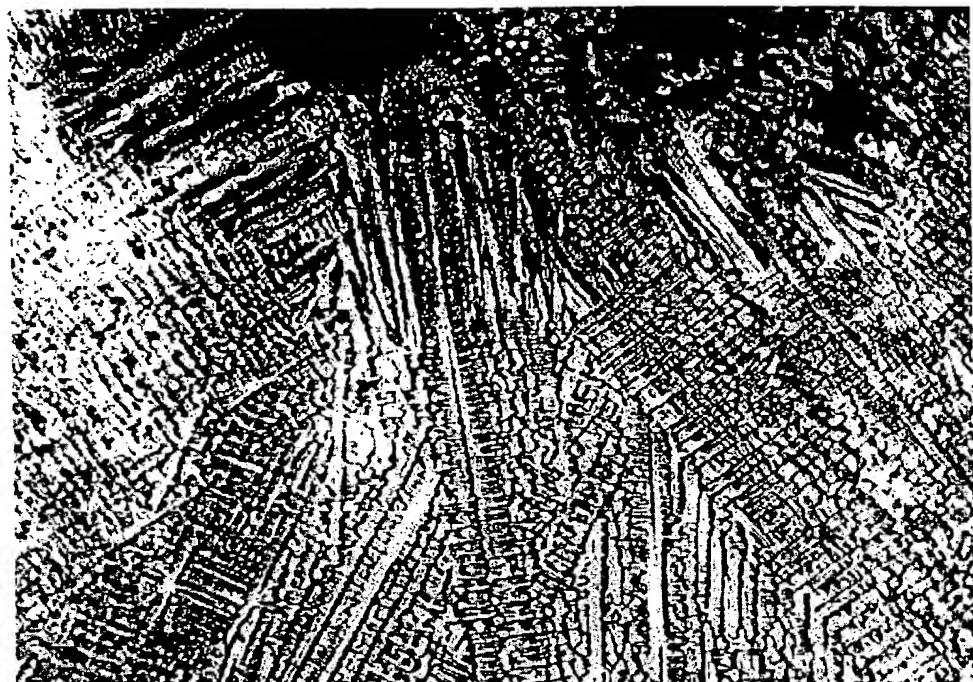


FIG. 20A



FIG. 20B

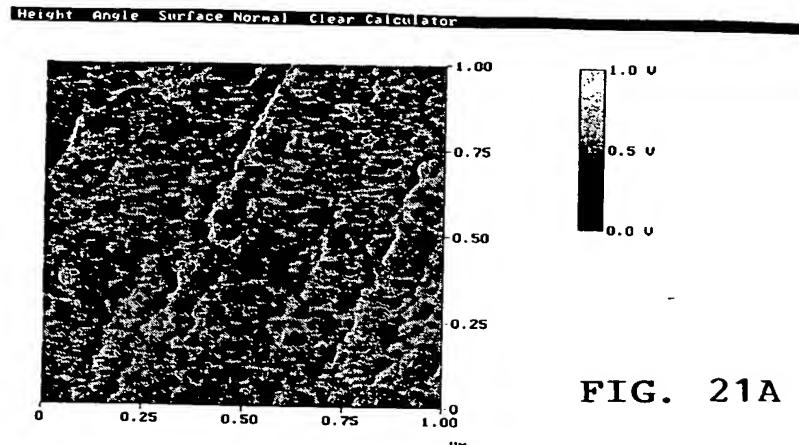


FIG. 21A

PI990722.015
Height

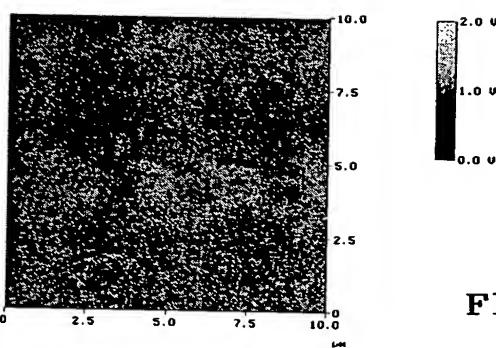


FIG. 21B

PI990722.011
Height

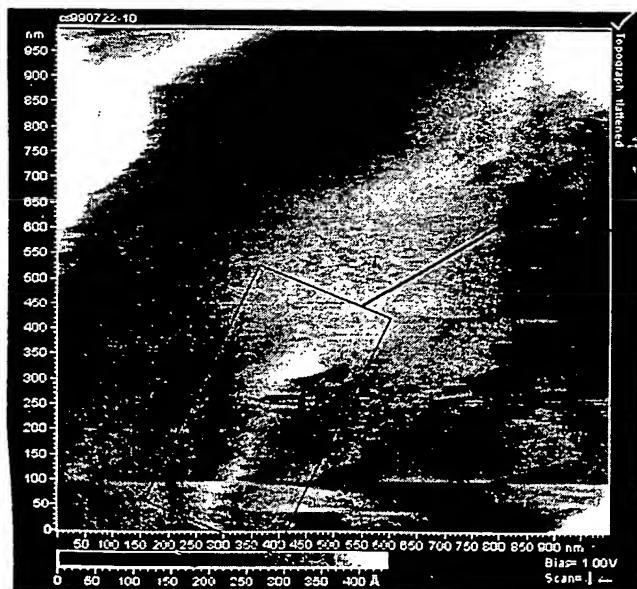


FIG. 21C

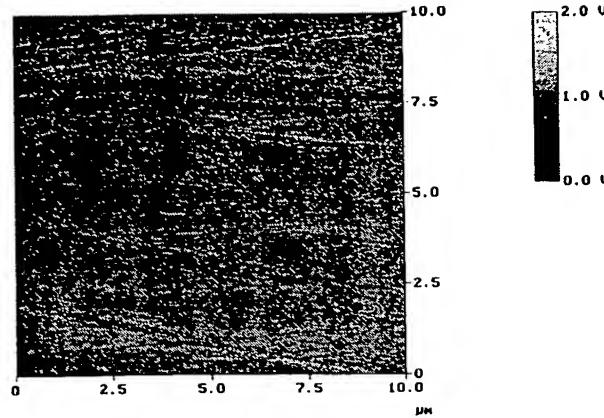


FIG. 22A

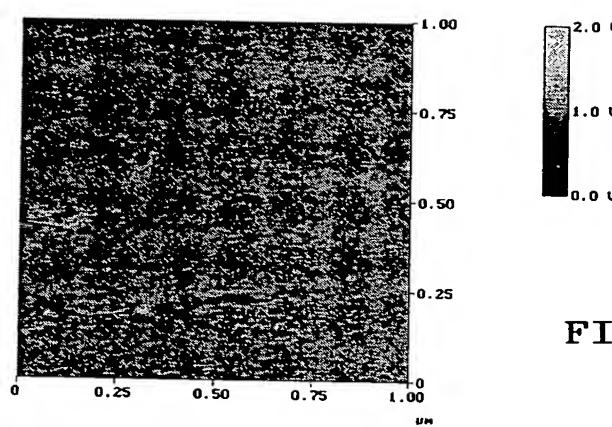


FIG. 22B

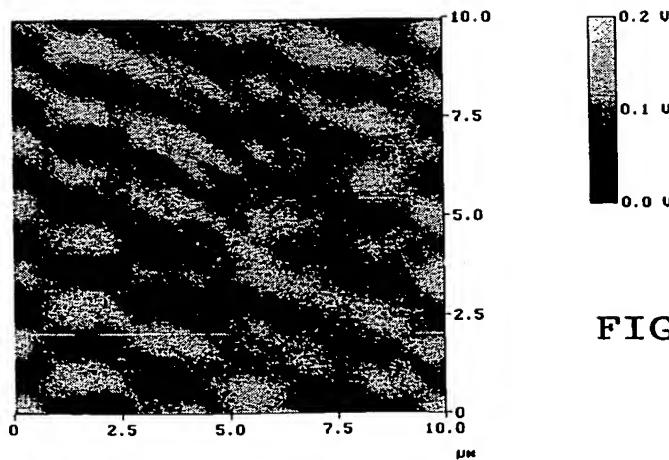


FIG. 22C

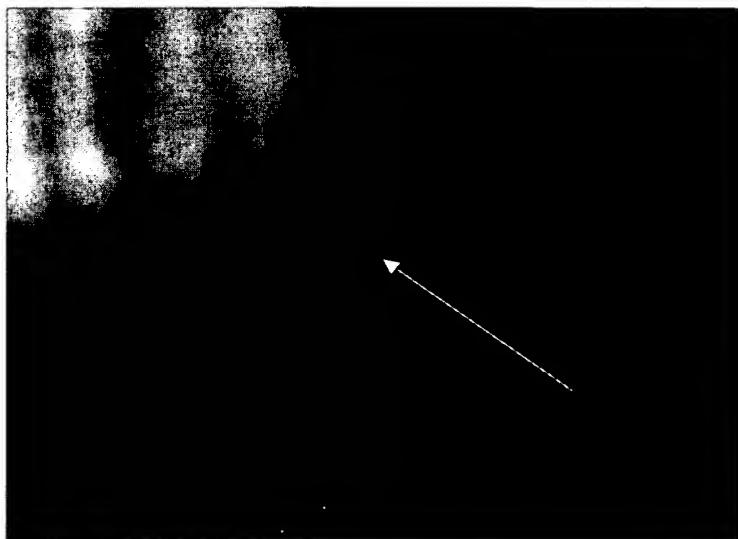


FIG. 23A

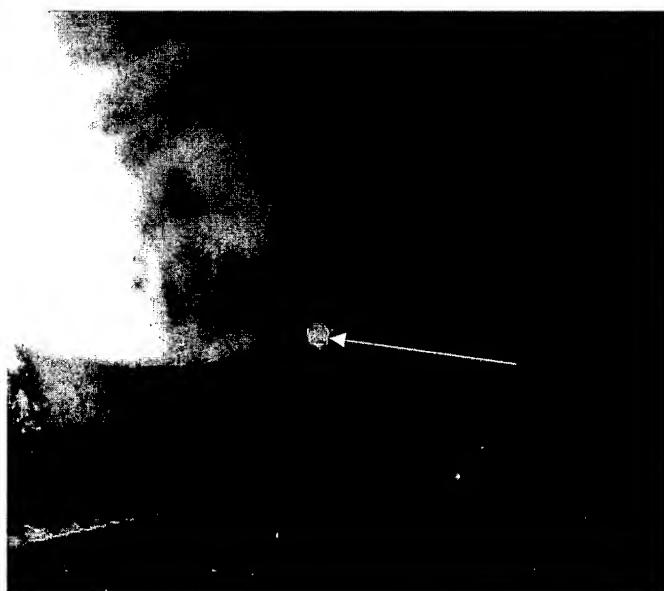


FIG. 23B

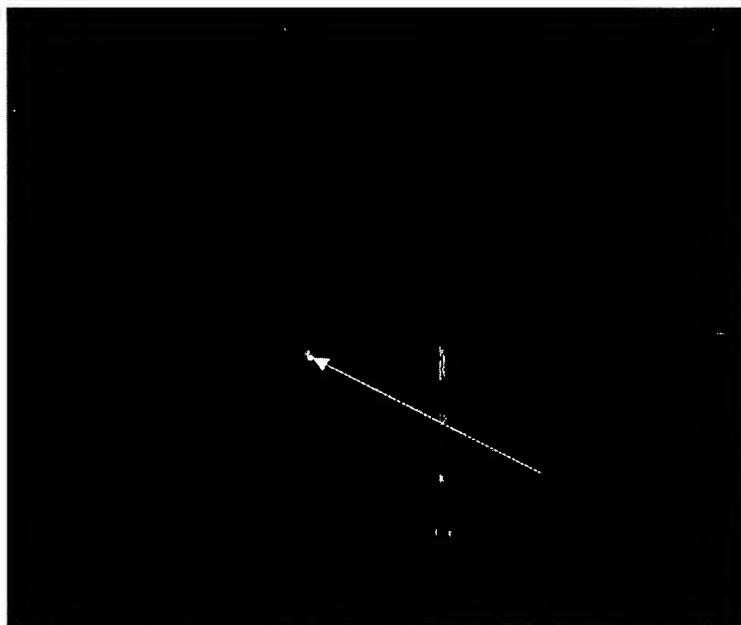


FIG. 23C

14-01-01 scans for Copper (LiF220/FPC)

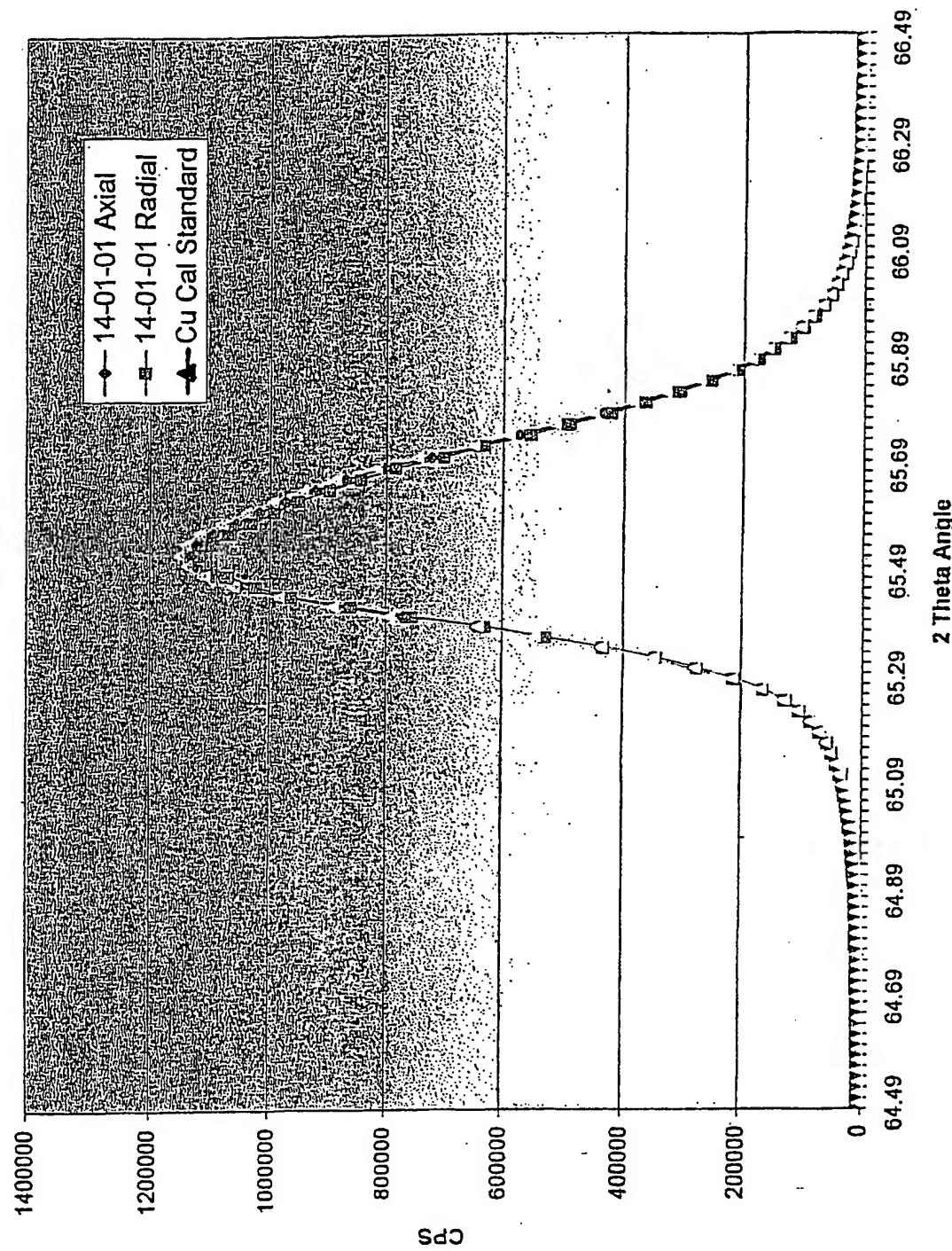


FIG. 25

Al in Copper 14-01-01

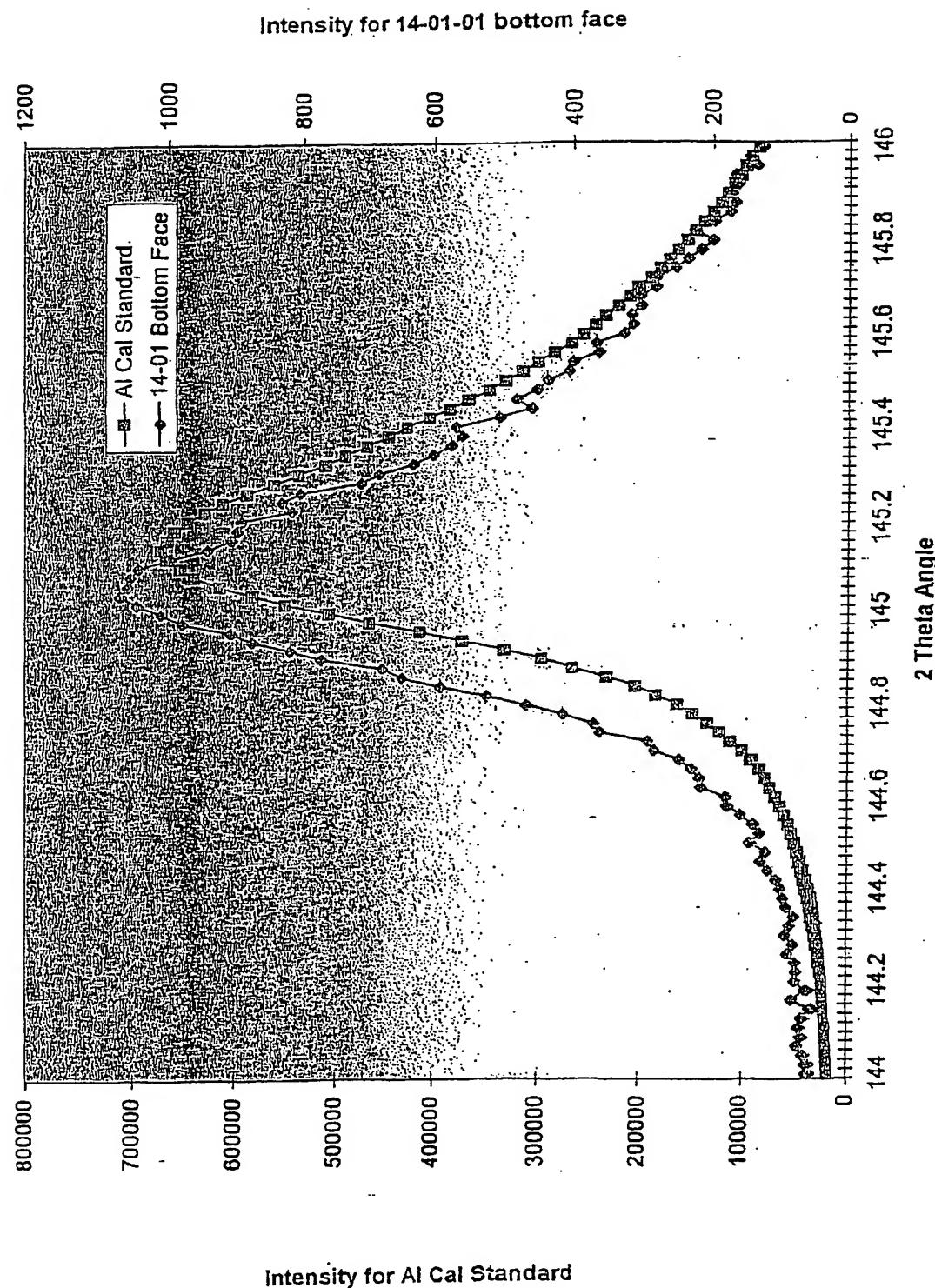
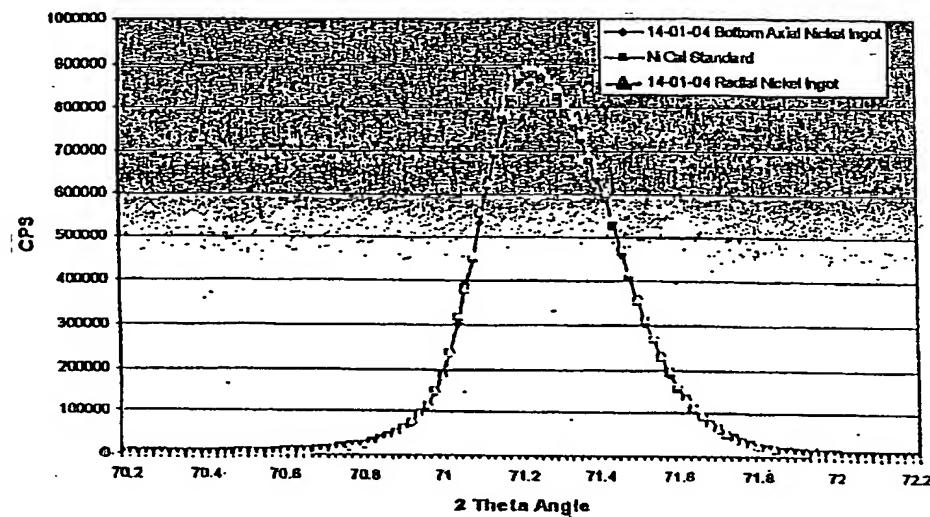


FIG. 26

Nickel Scans: Nickel Analysis



K_{α} Nickel Scans
Run 14-01-04

FIG. 27A

L_{α} Nickel Scans
Run 14-01-04

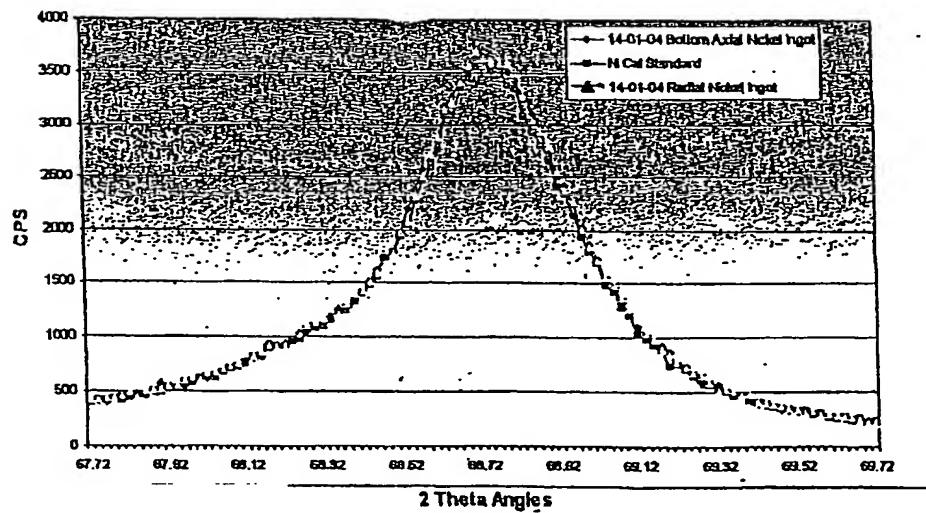
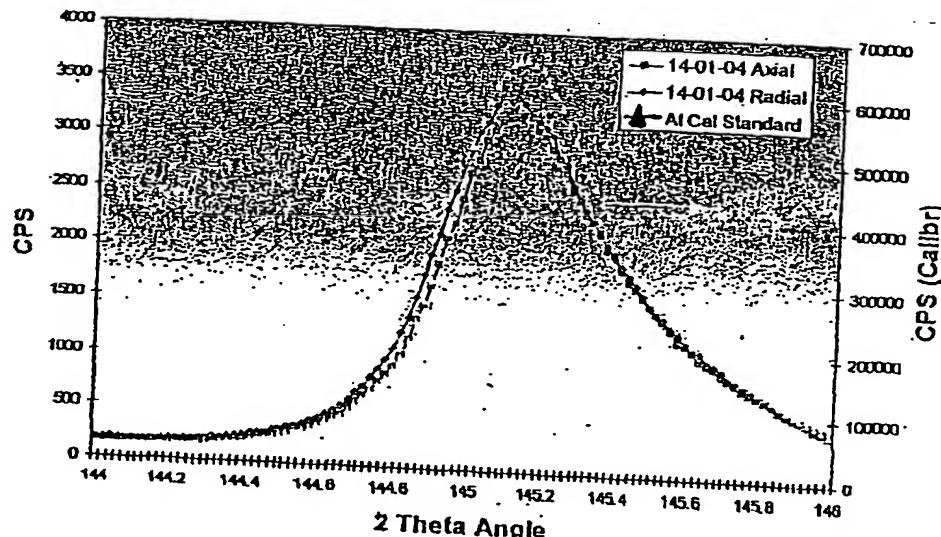


FIG. 27B

Nickel Scans: Al and Zr



K_{α} Aluminum Scans of Nickel
Run 14-01-04

FIG. 28A

K_{α} Zirconium Scans of Nickel
Run 14-01-04

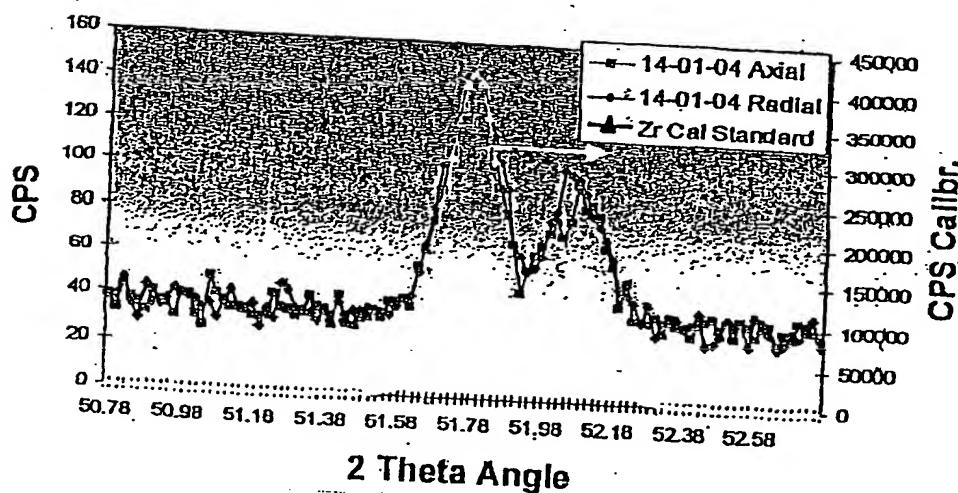


FIG. 28B

Nickel Scans: Sulfur on 6 sides

K_a Sulfur Scans of Nickel
Run 14-01-04

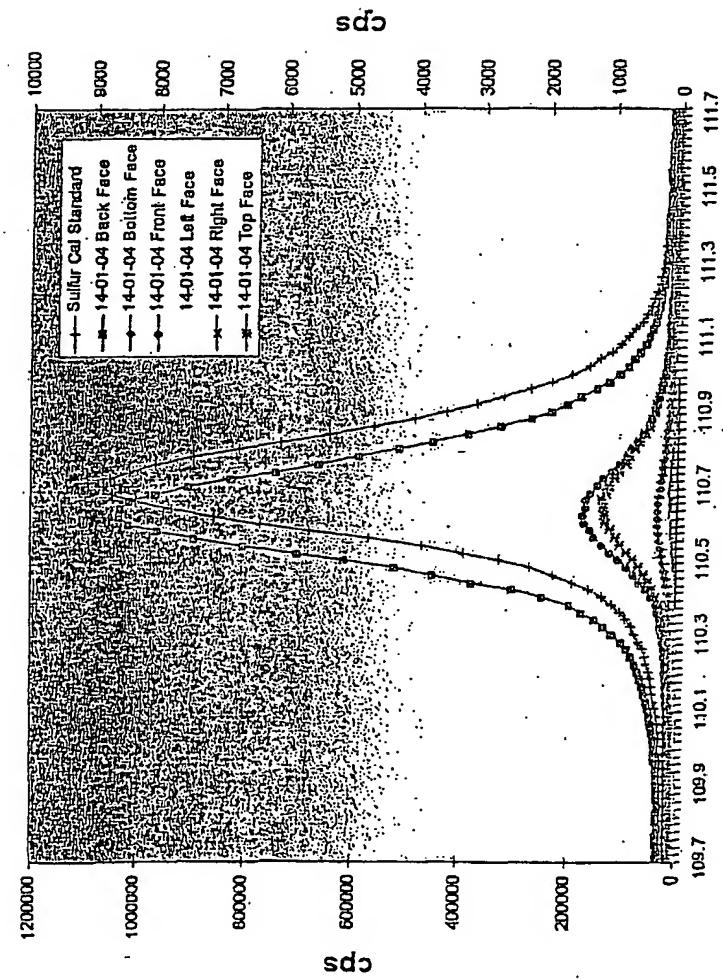


FIG. 29

Nickel Scans: Cl

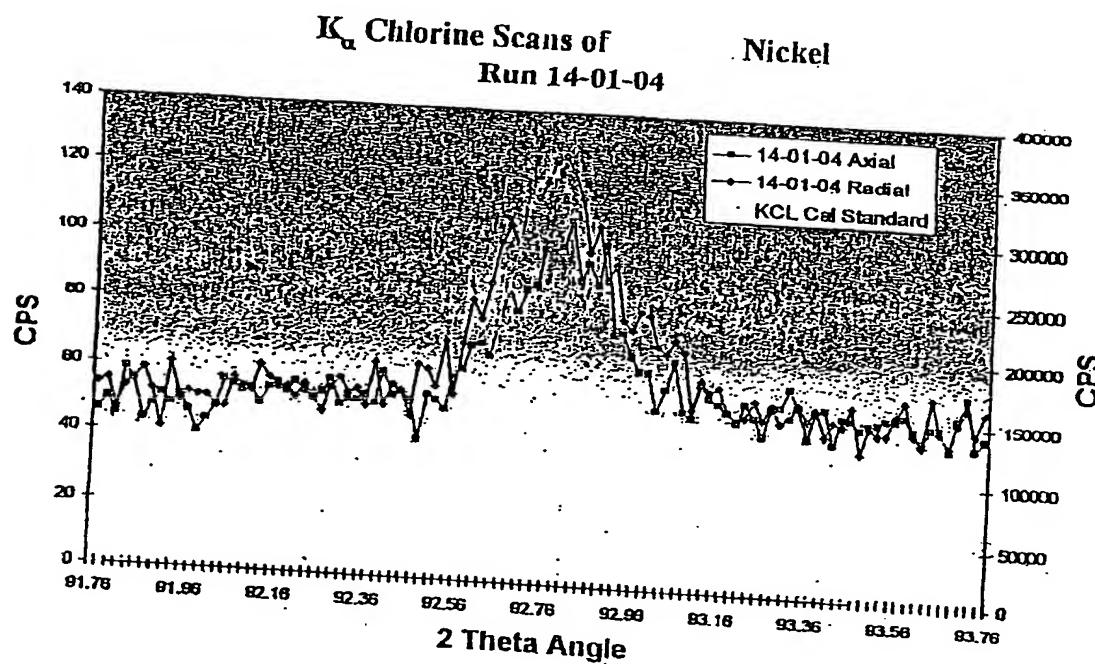
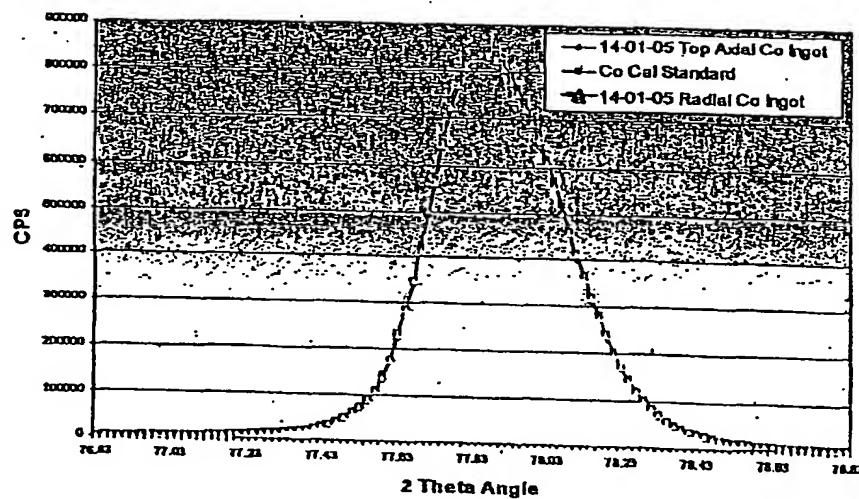


FIG. 30

Cobalt Scans: Cobalt Analysis



K_{α} Cobalt Scans
Run 14-01-05

FIG. 31A

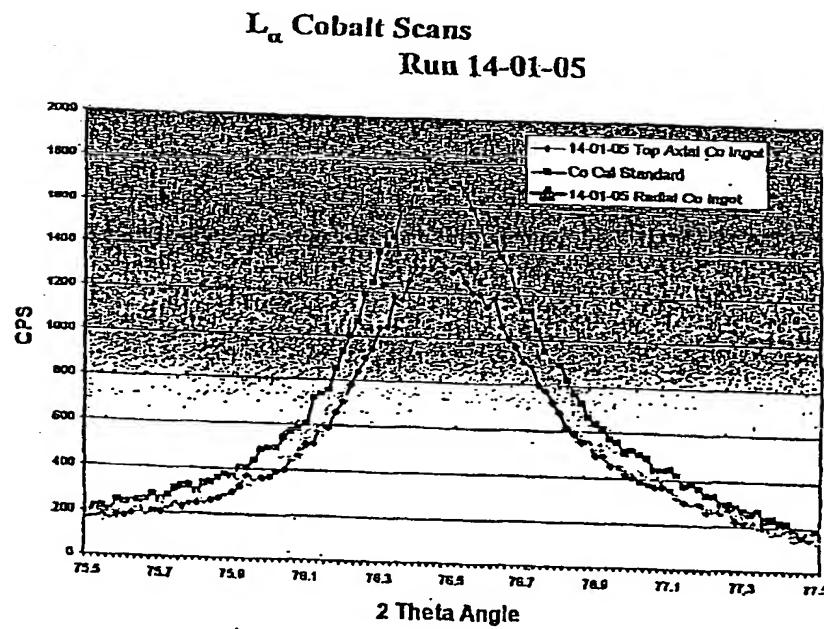


FIG. 31B

Cobalt Scans: Al and Fe

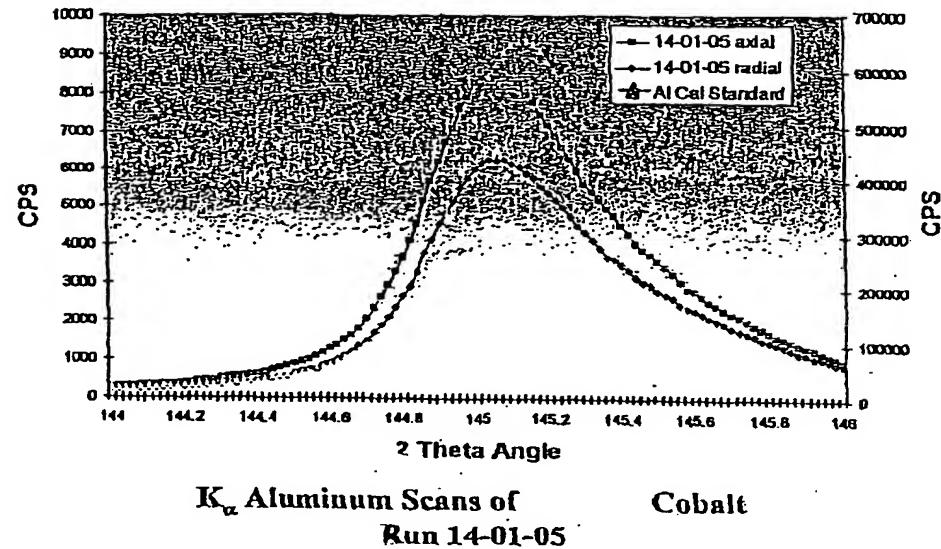


FIG. 32A

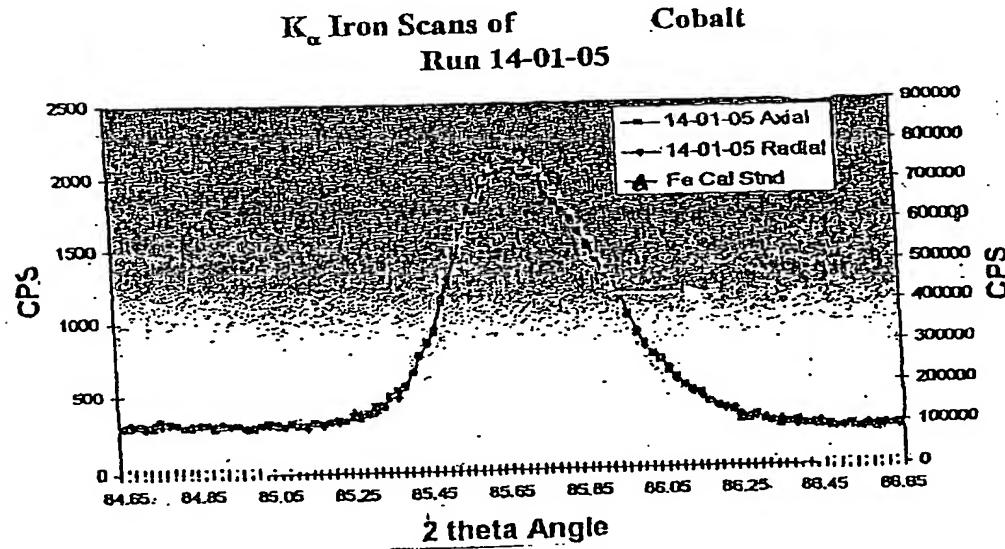
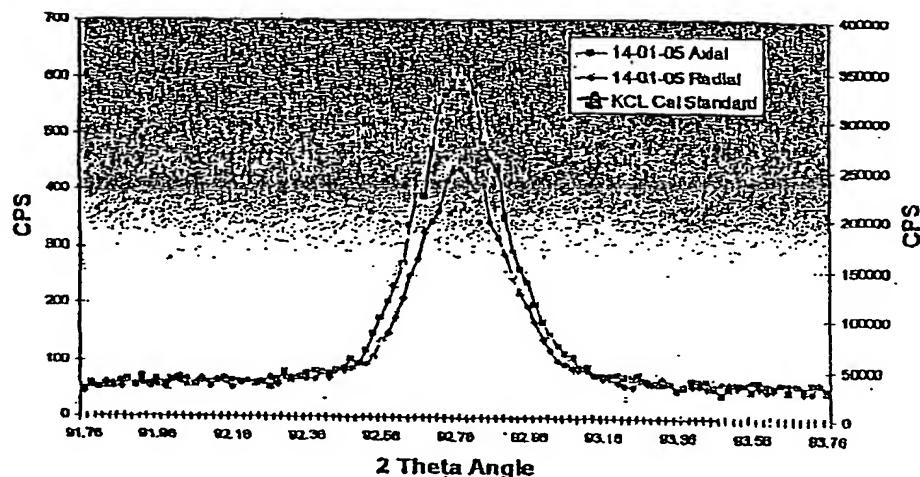


FIG. 32B

Cobalt Scans: Cl and Zr



K_{α} Chlorine Scans of Cobalt
Run 14-01-05.

FIG. 33A

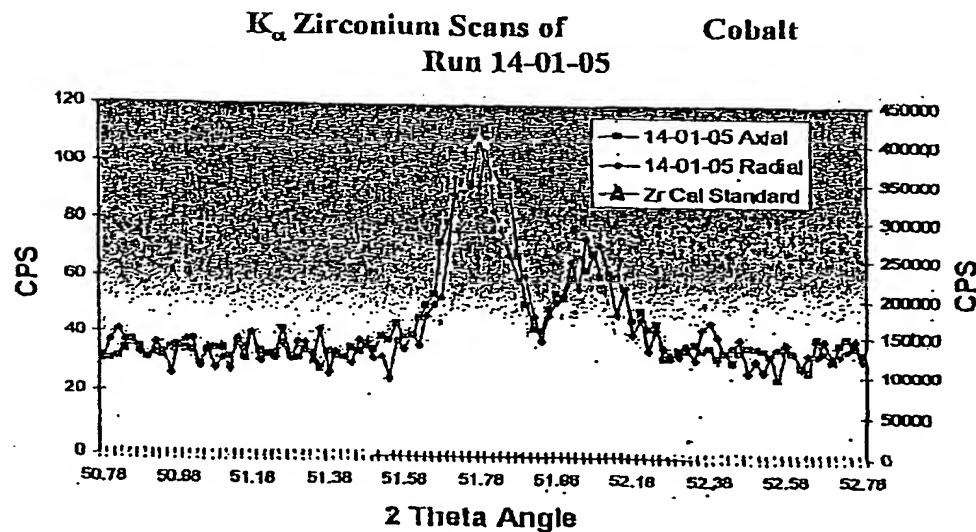


FIG. 33B

Cobalt Scans: Mn

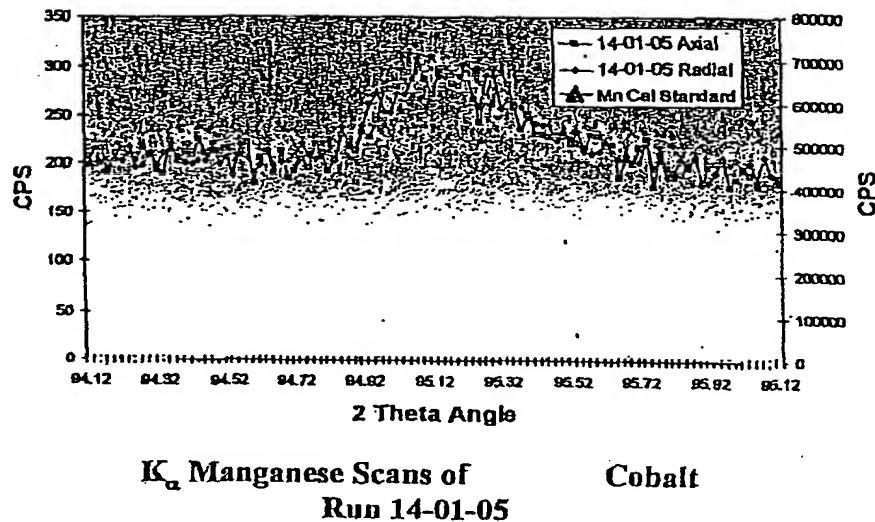


FIG. 34

14-01-06 Cu - Axial and Radial Samples vs Cu Cal Standard (LiF200/FPC)

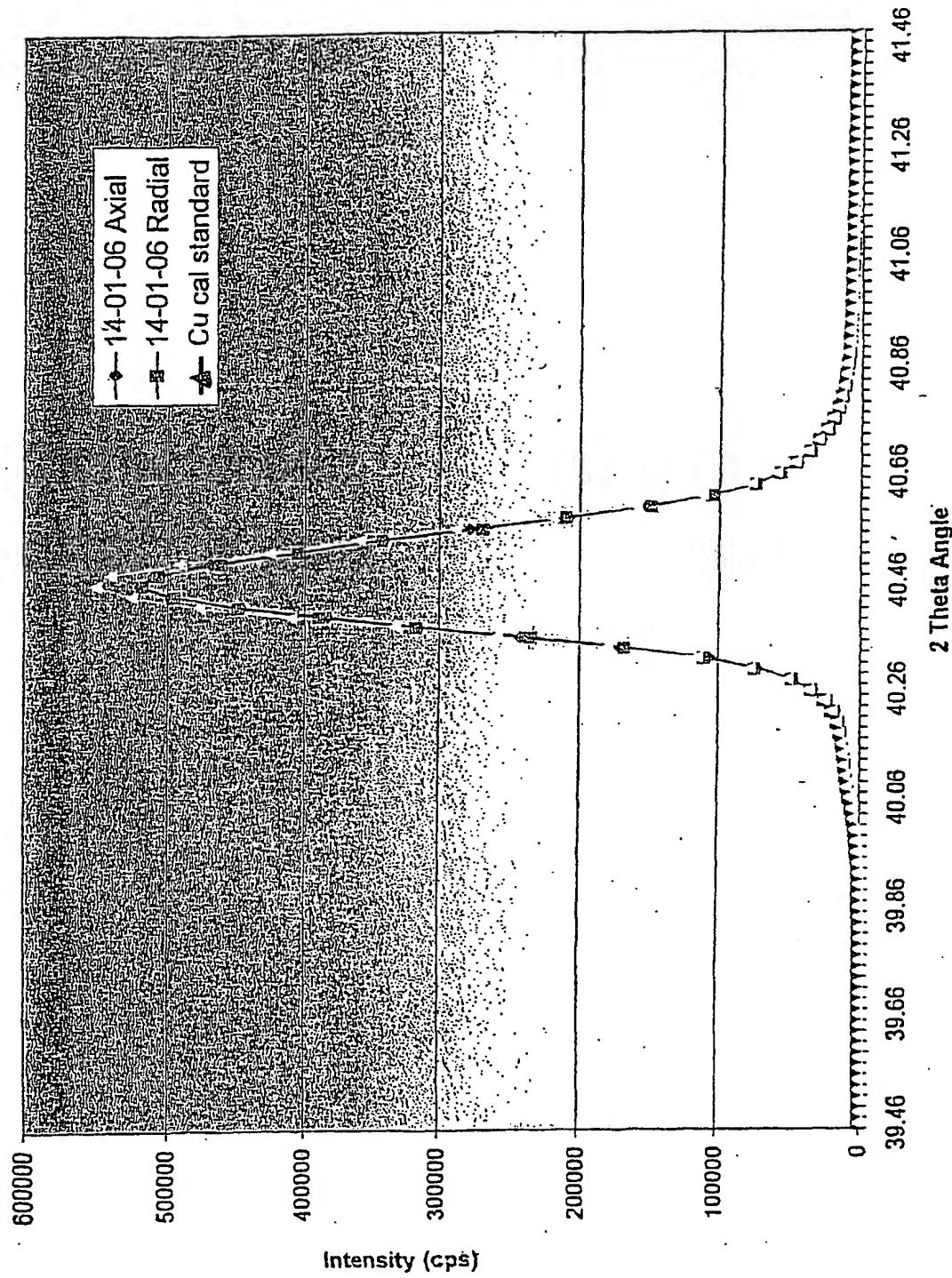


FIG. 35

14-01-06 Au-Axial and Radial Samples vs Au Cal Standard (LiF420/SC)

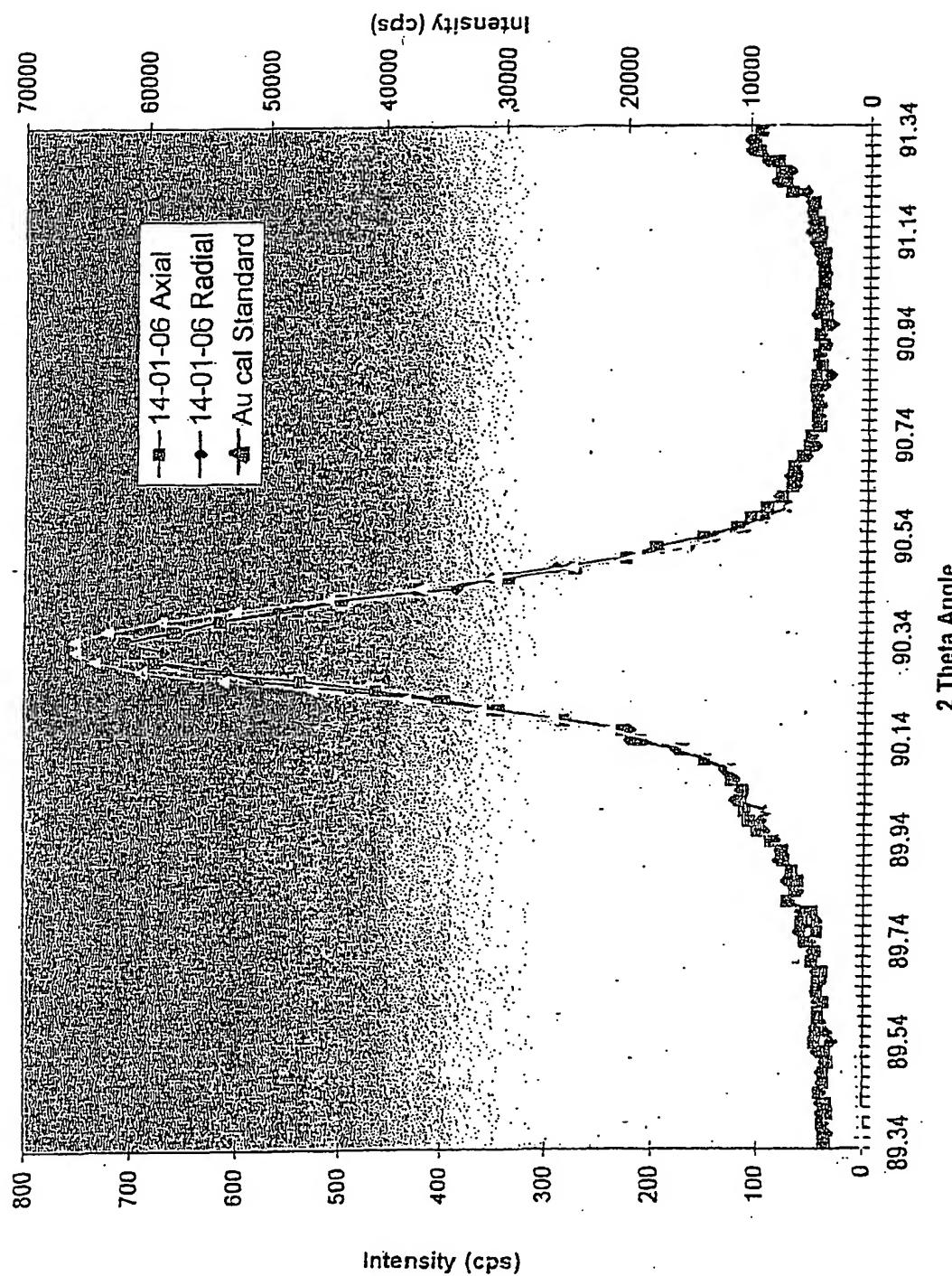


FIG. 36

14-01-06 Ag: Axial and Radial Samples vs Ag Cal Standard (LiF220/SC)

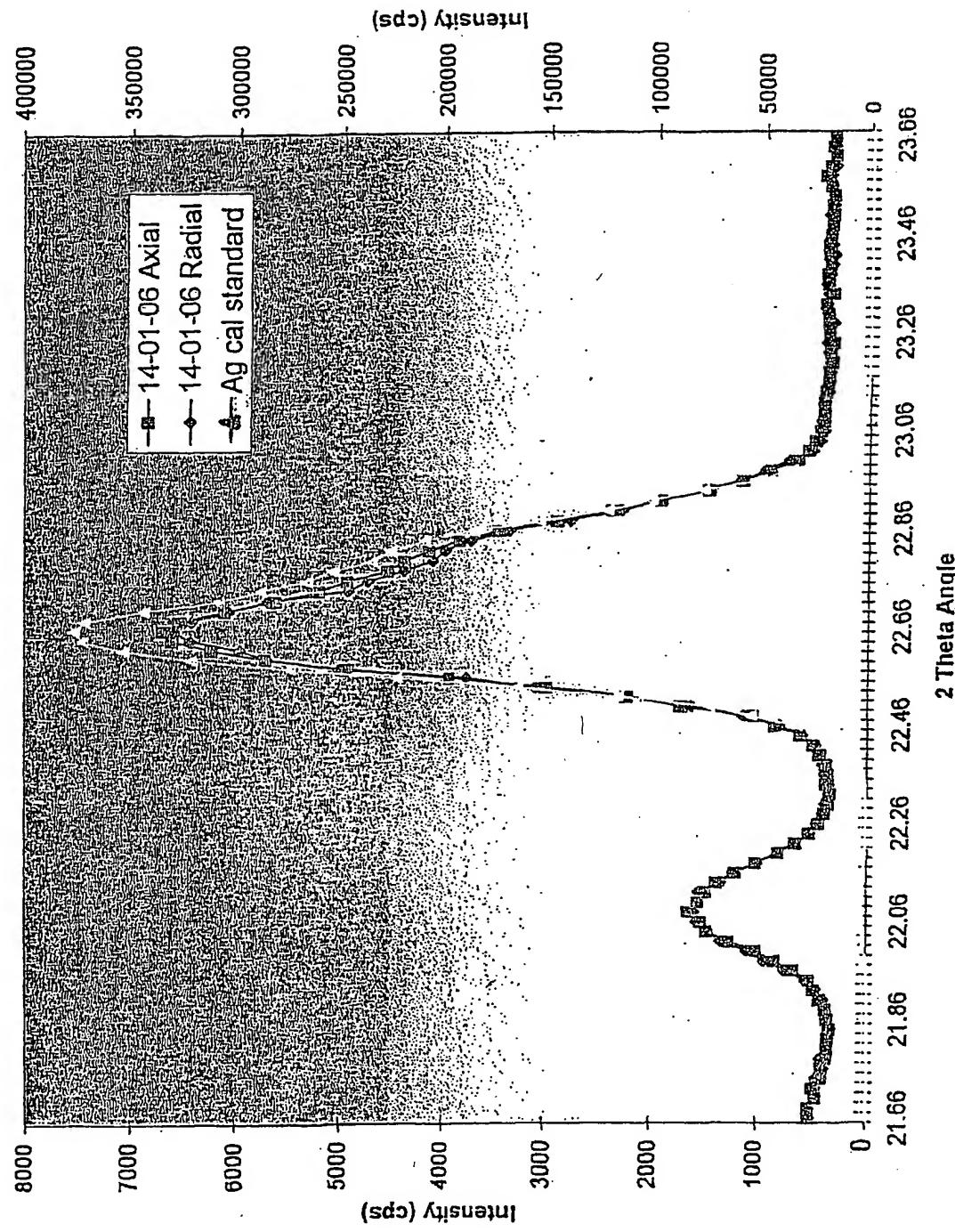


FIG. 37

14-01-07 Sn-Axial and Radial vs Sn Cal Standard

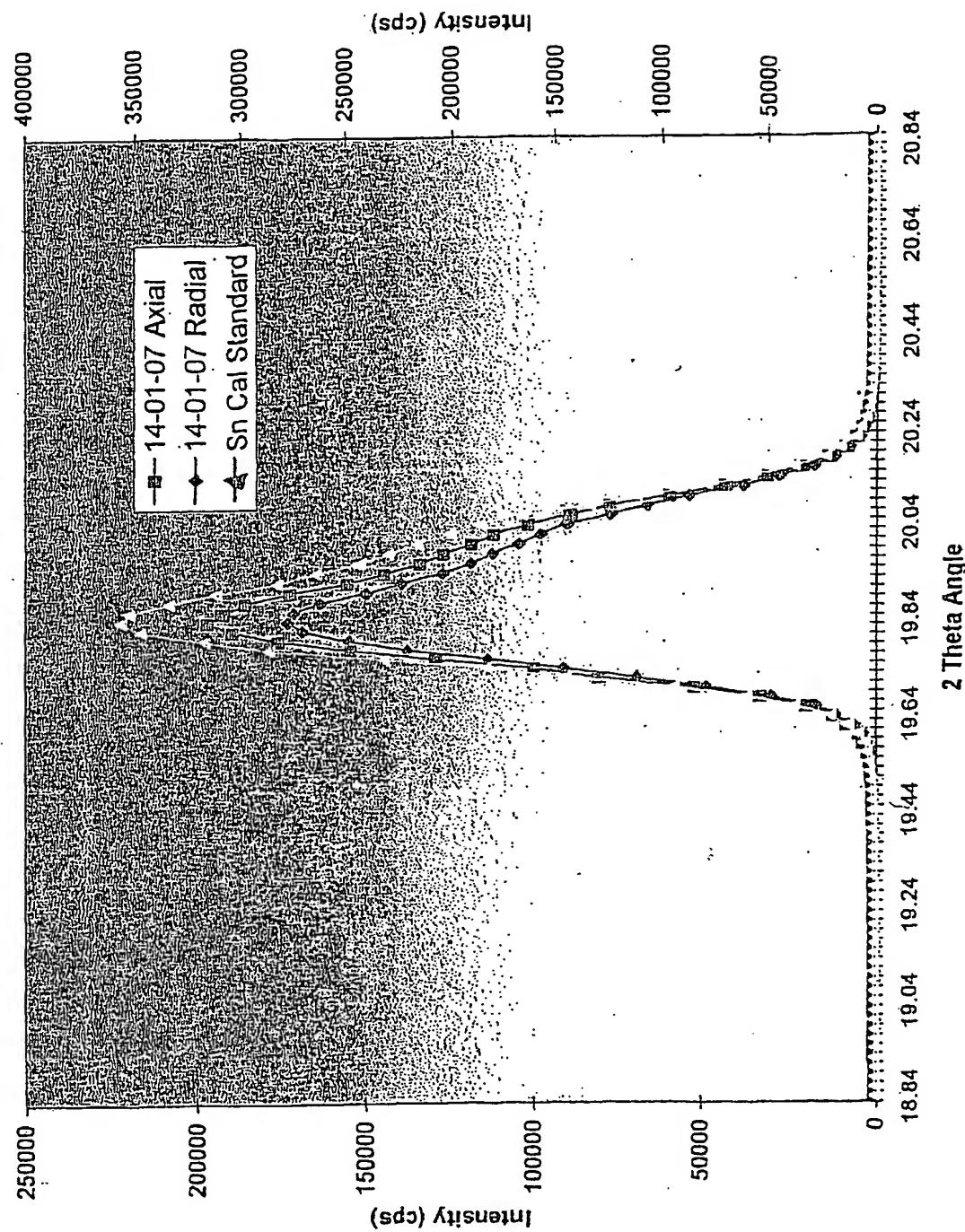


FIG. 38

14-01-07 Zn- Axial and Radial vs Zn Cal Standard (LiF220/IFPC)

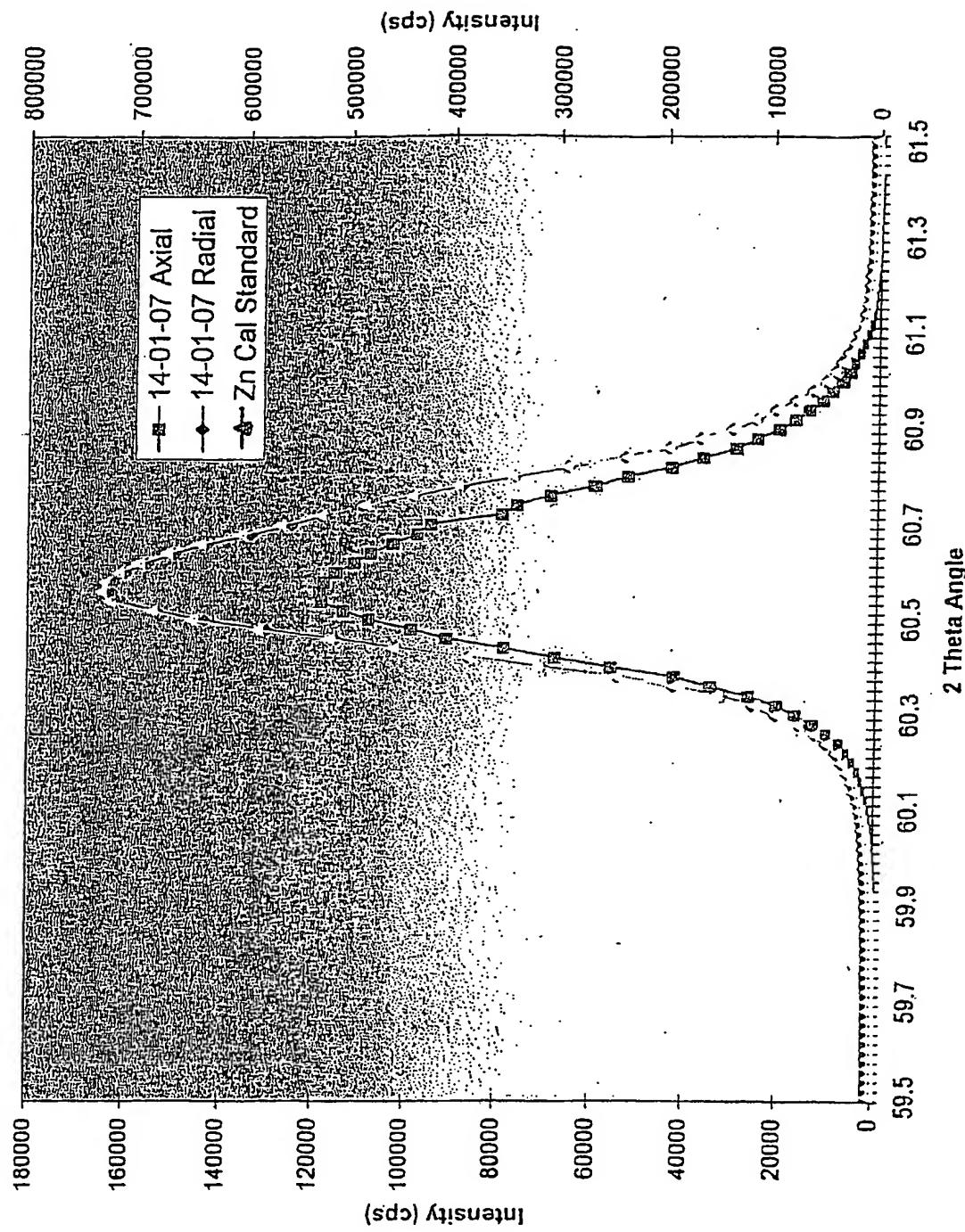


FIG. 39

14-01-07 Pb- Axial and Radial vs Pb Cal Standard

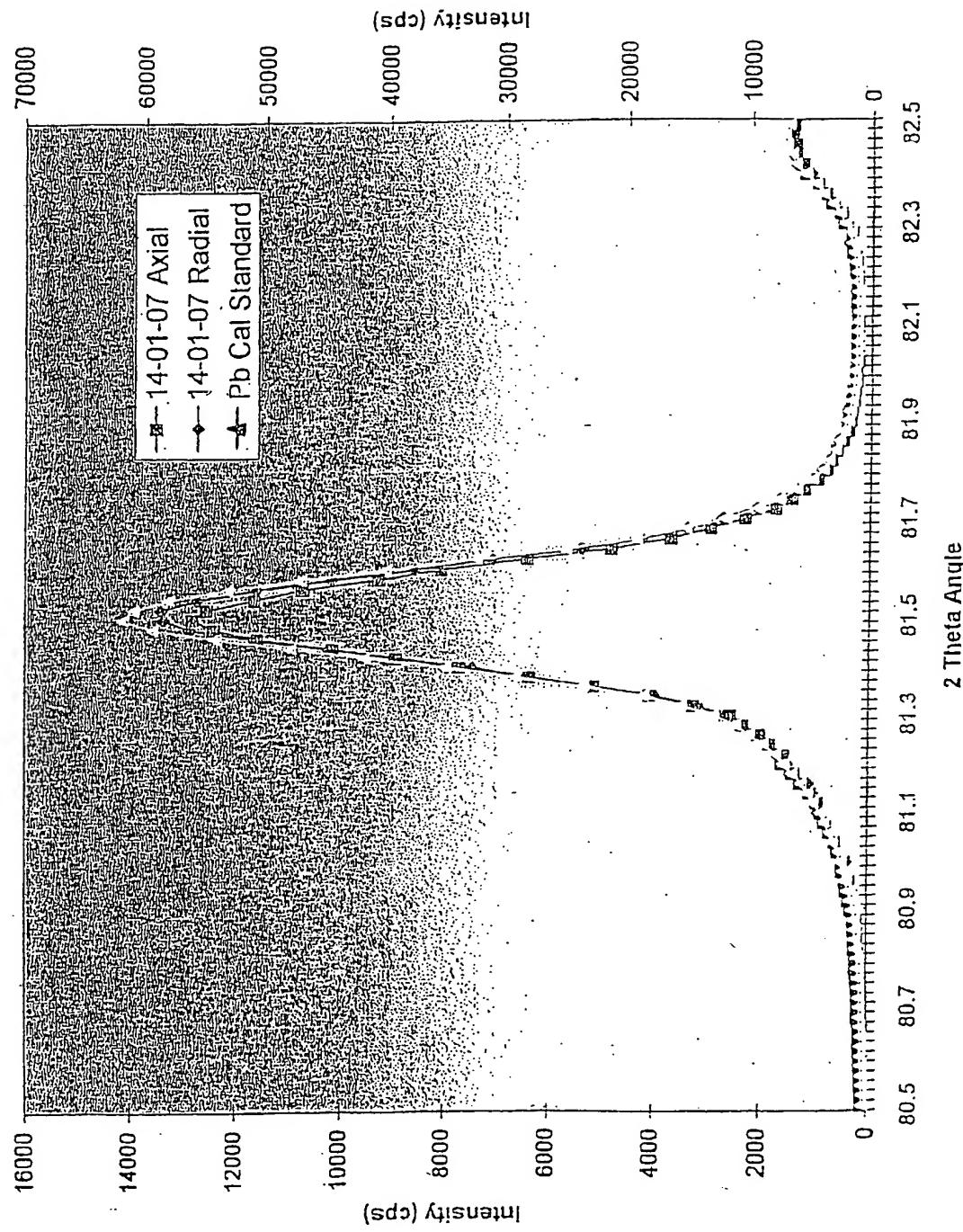


FIG. 40

14-01-08 scans for K

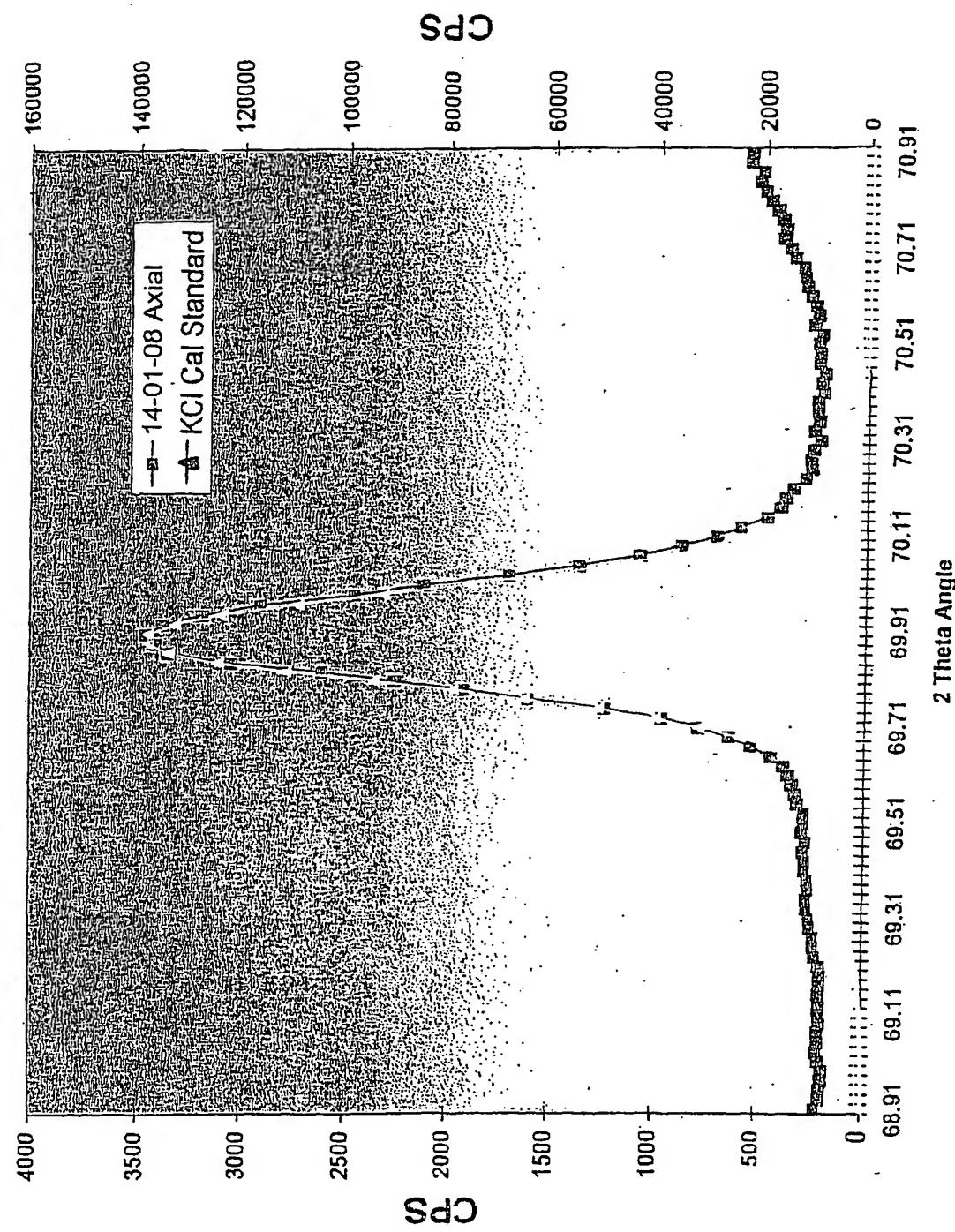


FIG. 41

14-01-08 Sn- Axial and Radial vs Sn Cal Standard

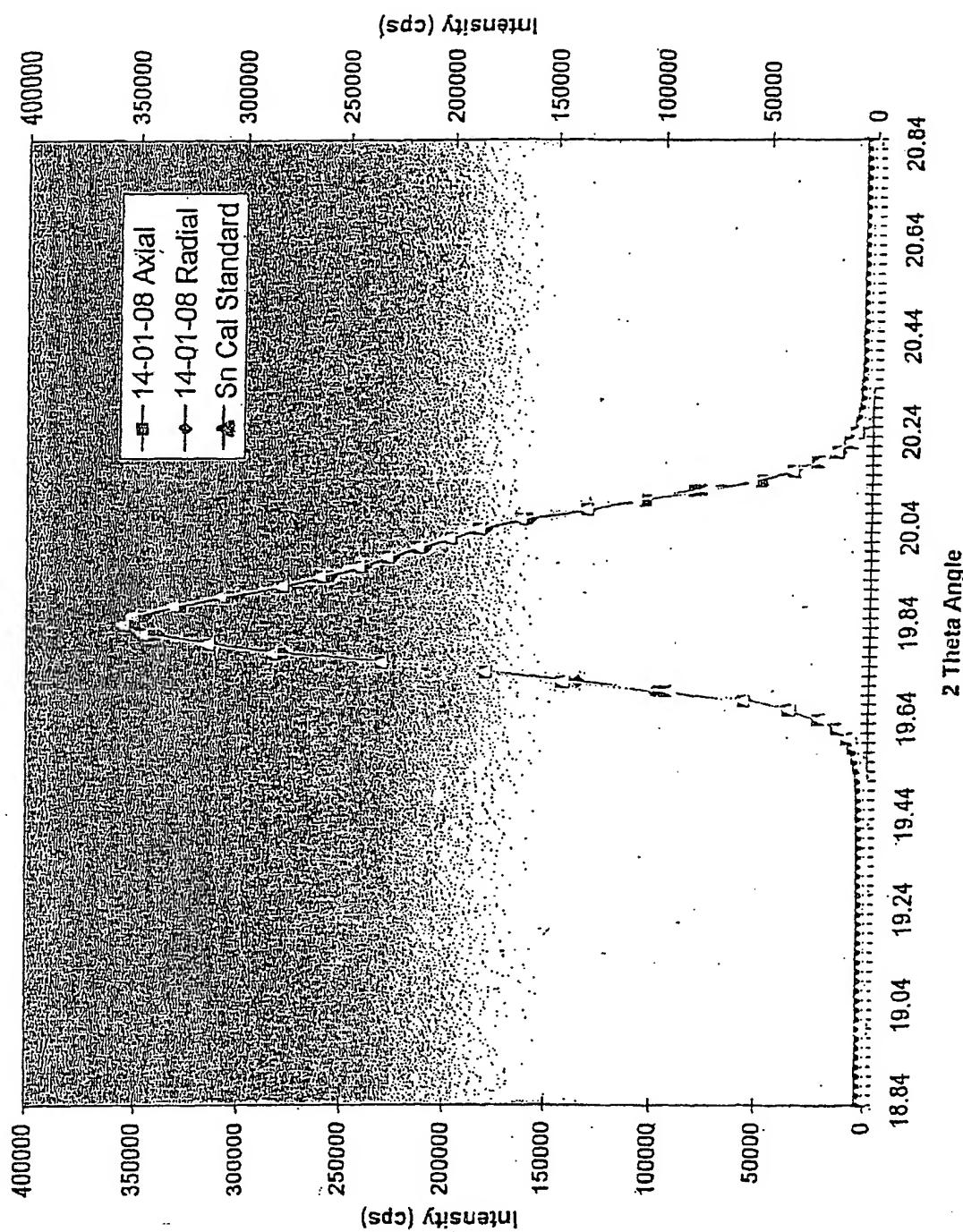


FIG. 42

14-01-08 Mg- Axial and Radial Samples vs MgO Cal Standard

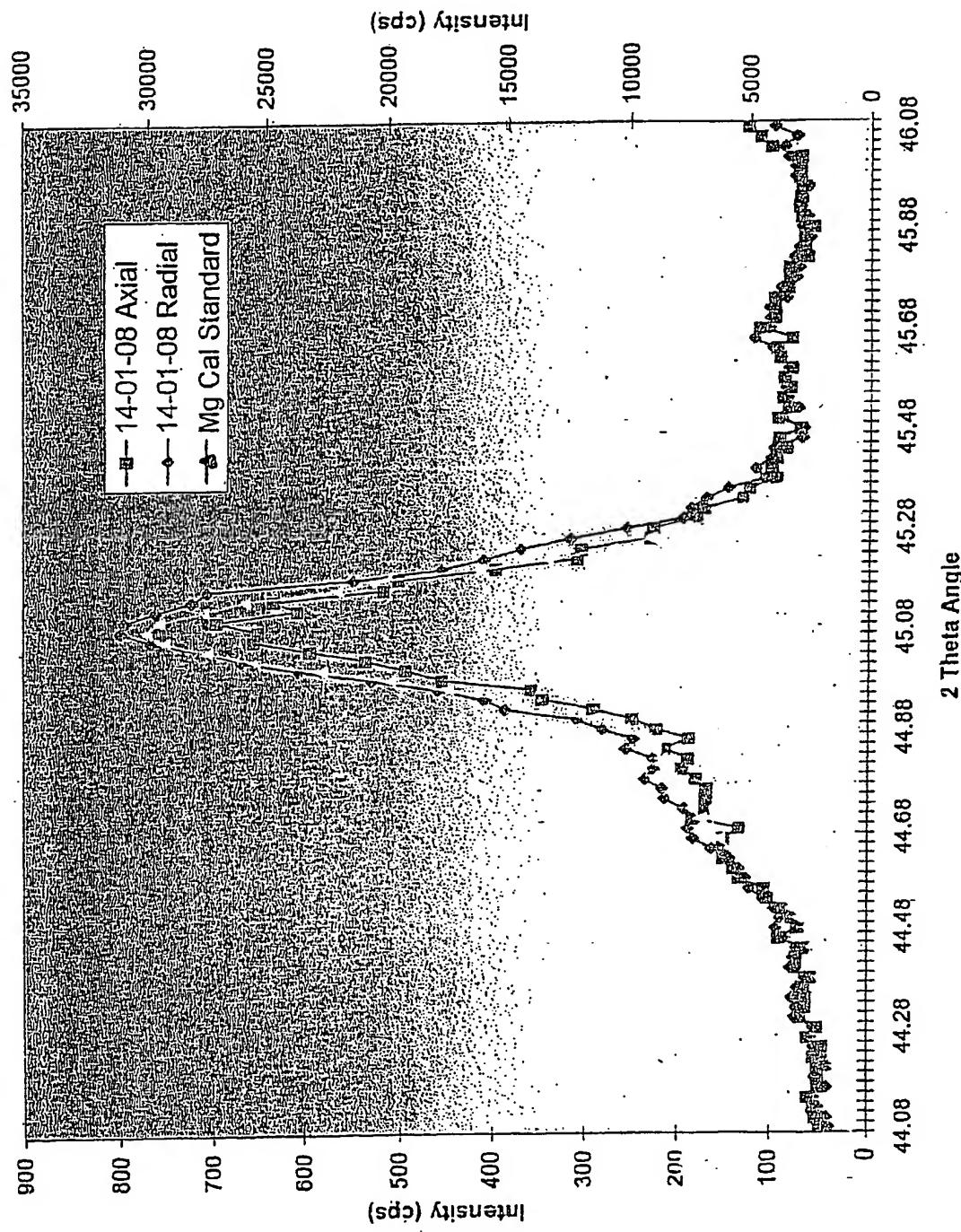


FIG. 43

14-01-08 Na-Axial and Radial Samples vs AlNa3F6 Cal Standard

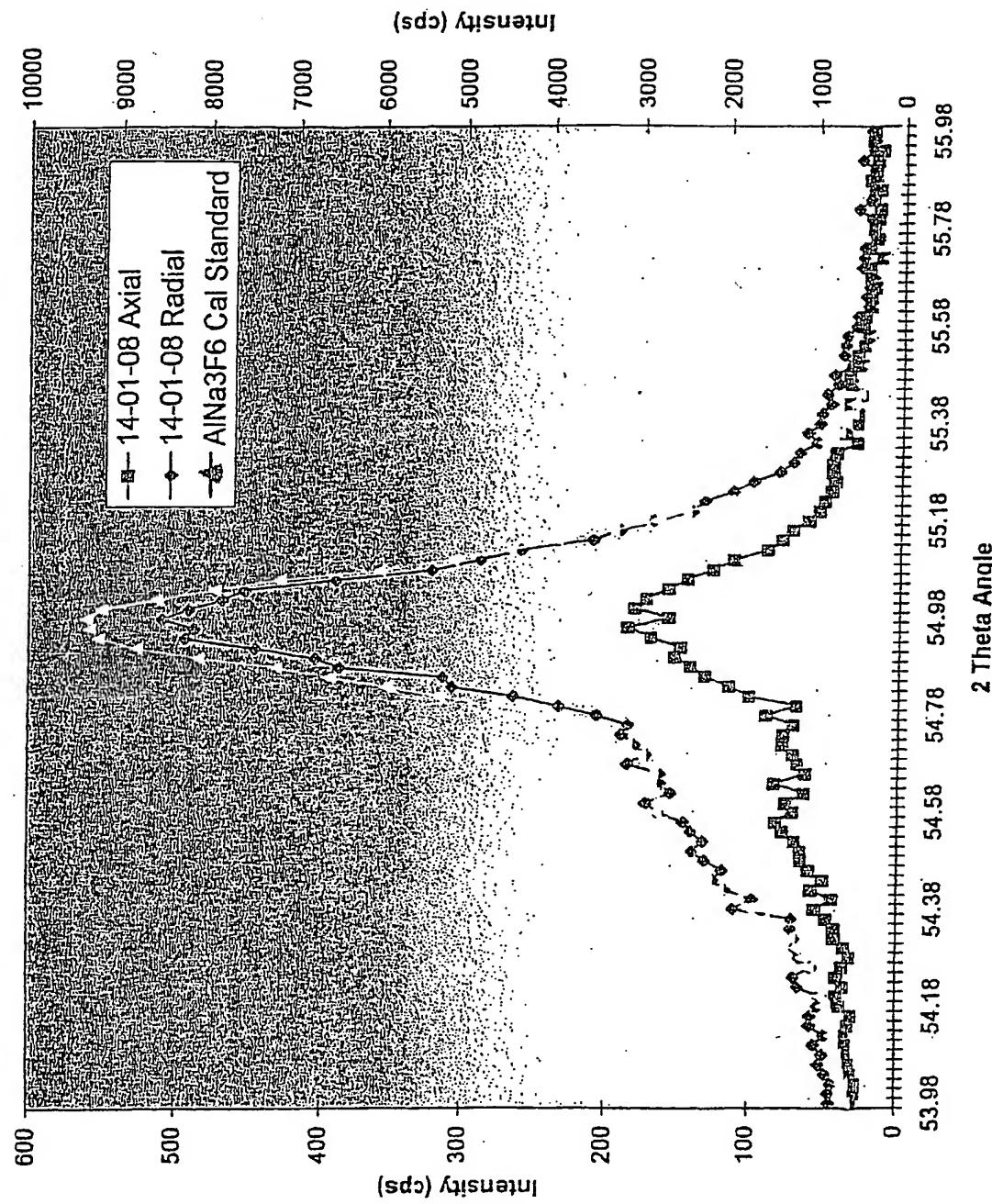
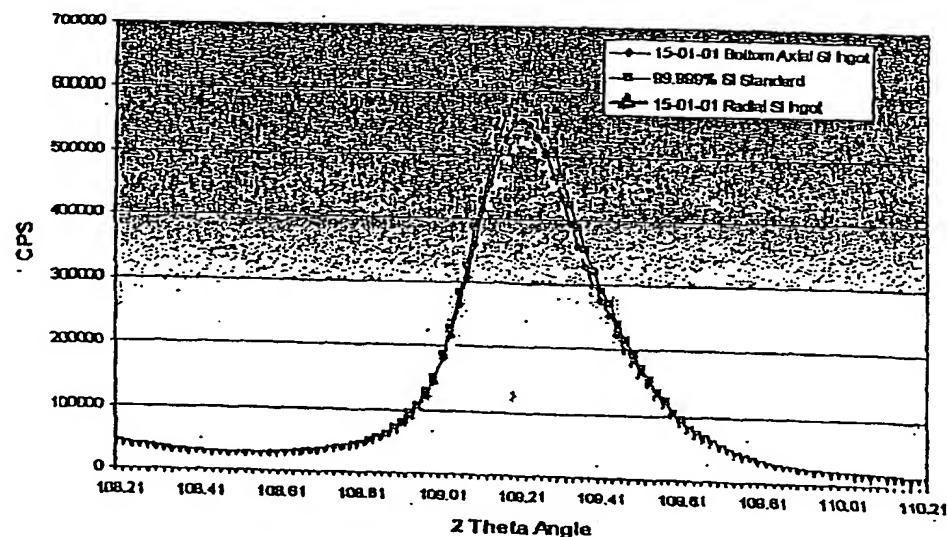


FIG. 44

Silicon Scans: Silicon Analysis



K_{α} Silicon Scans
Run 15-01-01

FIG. 45A

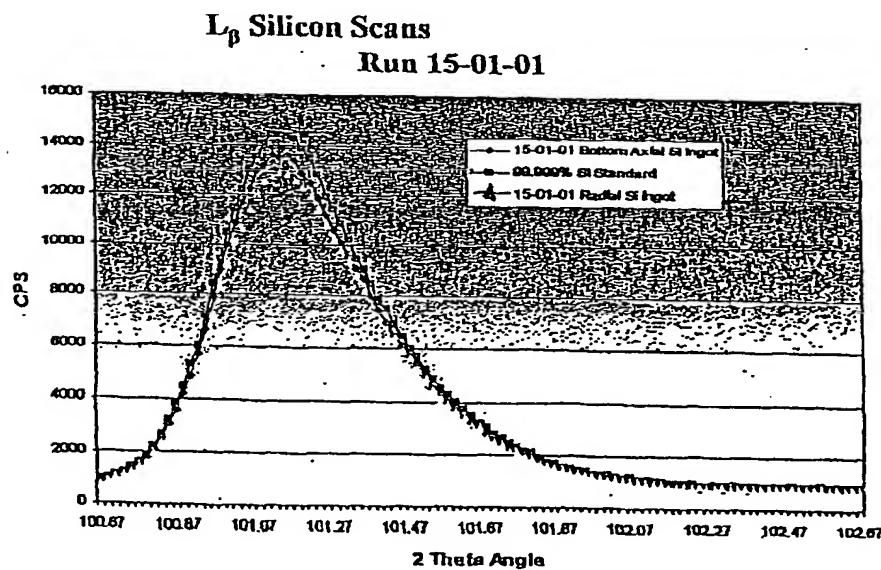


FIG. 45B

Silicon Scans: Al and Ti

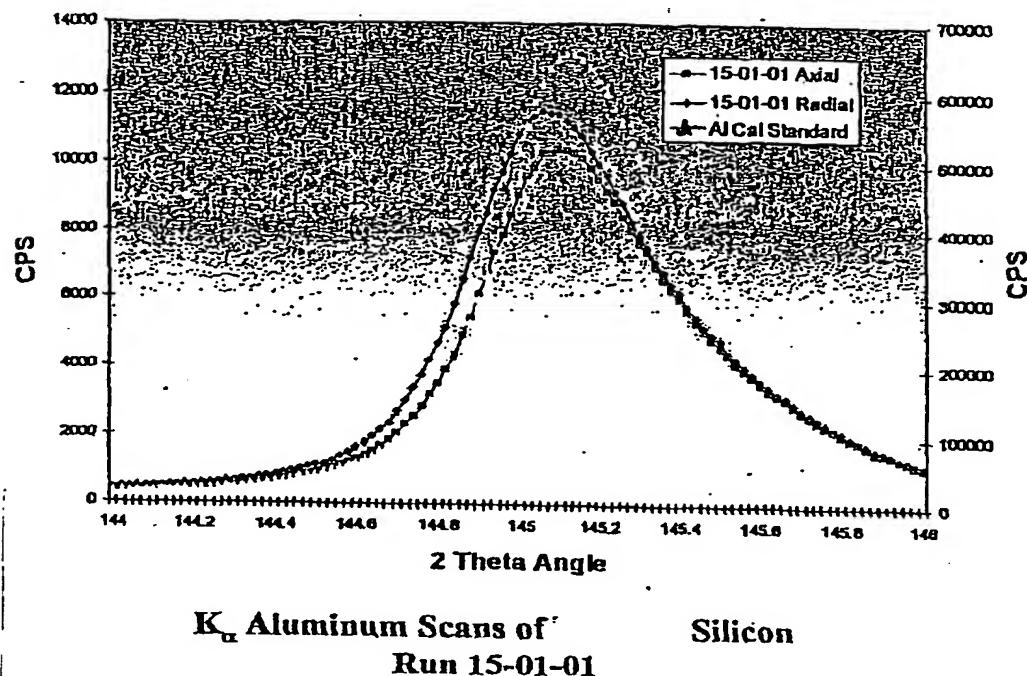


FIG. 46A

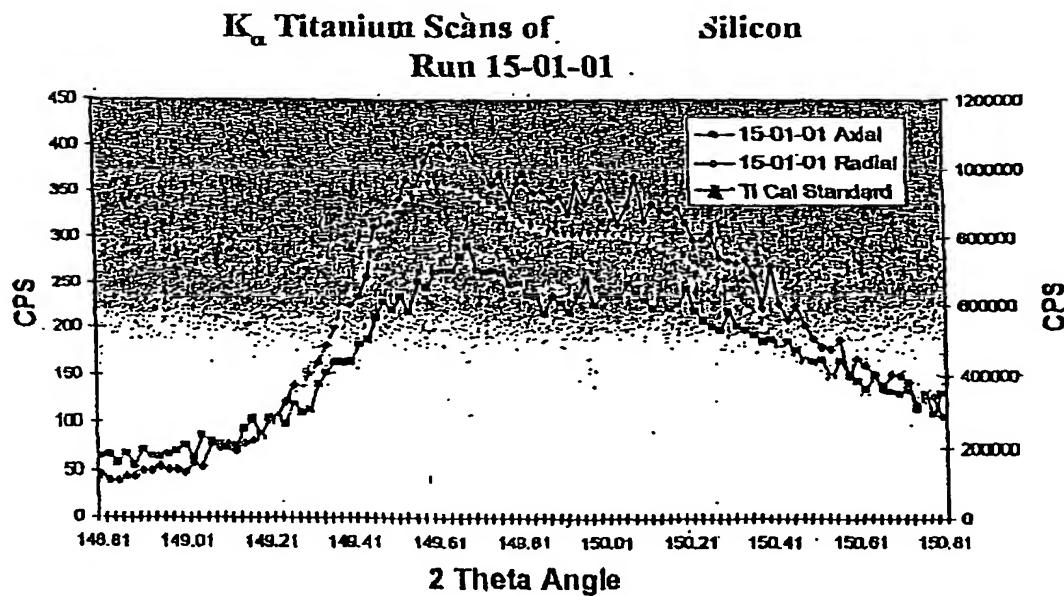


FIG. 46B

Silicon Scans: S and Cl

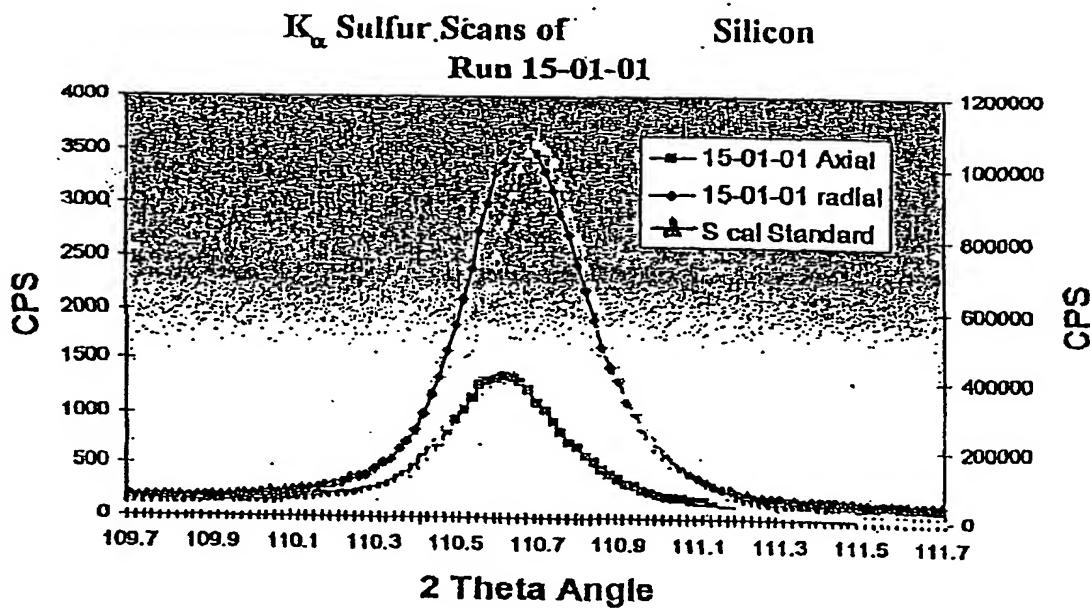


FIG. 47A

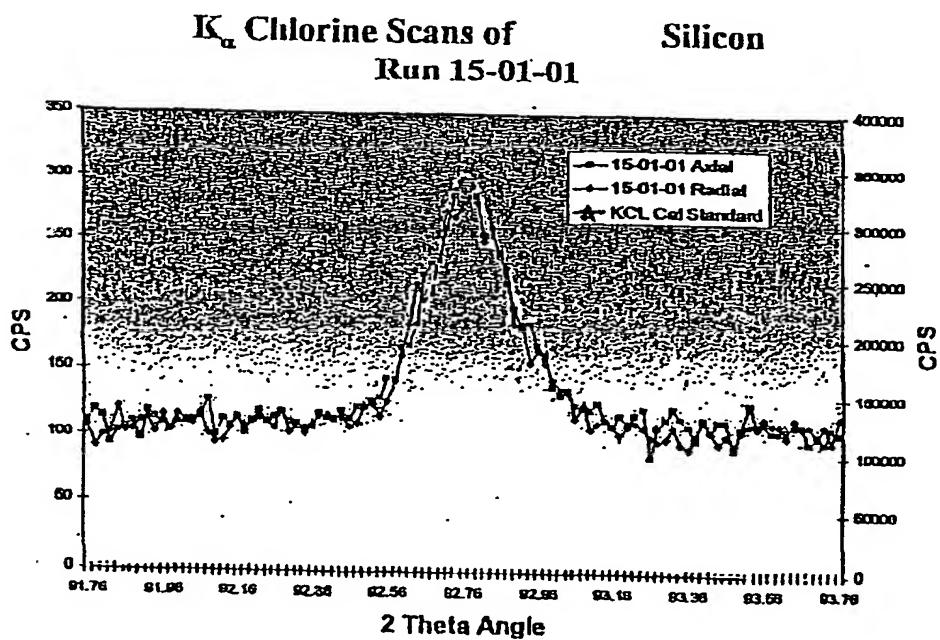


FIG. 47B

Silicon Scans: Ga and K

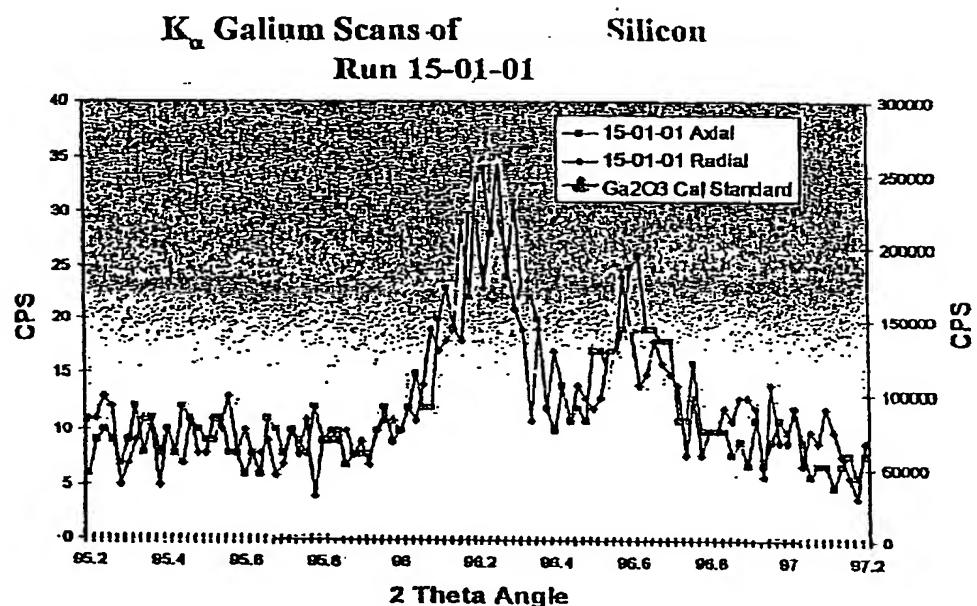


FIG. 48A

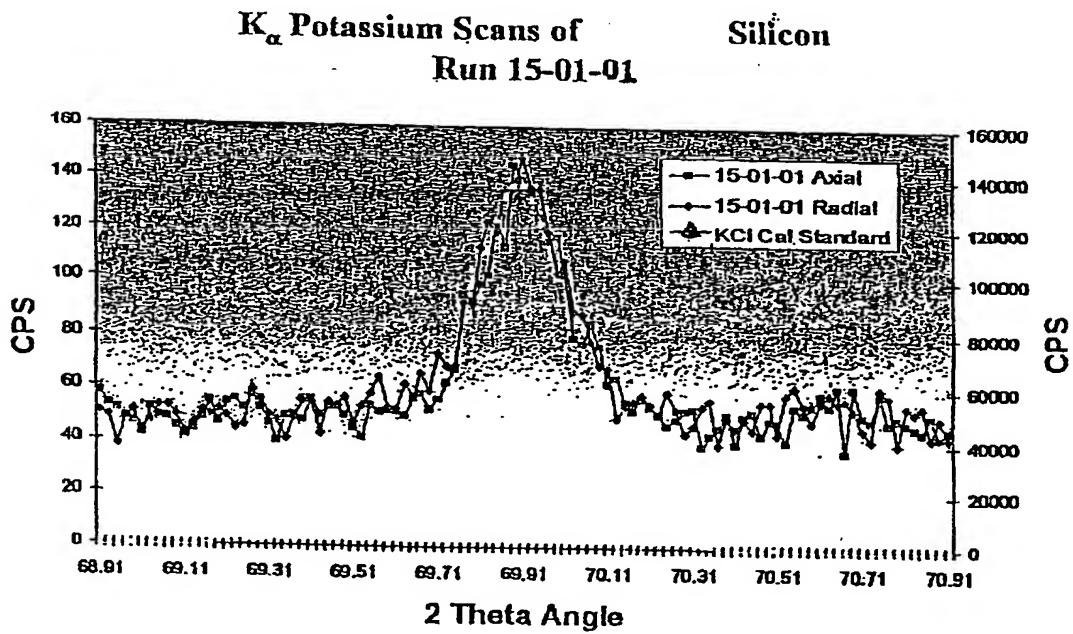
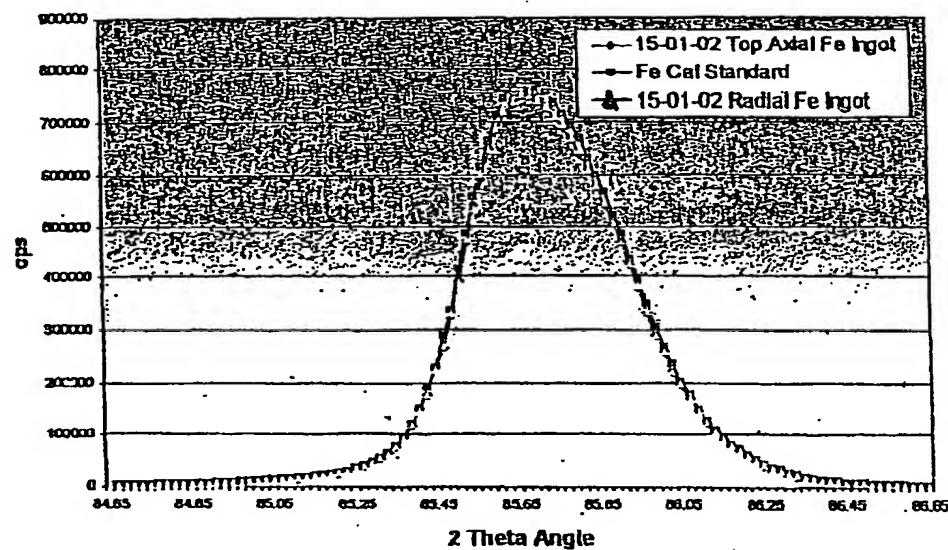


FIG. 48B

Iron Scans: Iron Analysis



**K_α Iron Scans of Iron
Run 15-01-02**

FIG. 49A

**L_α Iron Scans of Iron
Run 15-01-02**

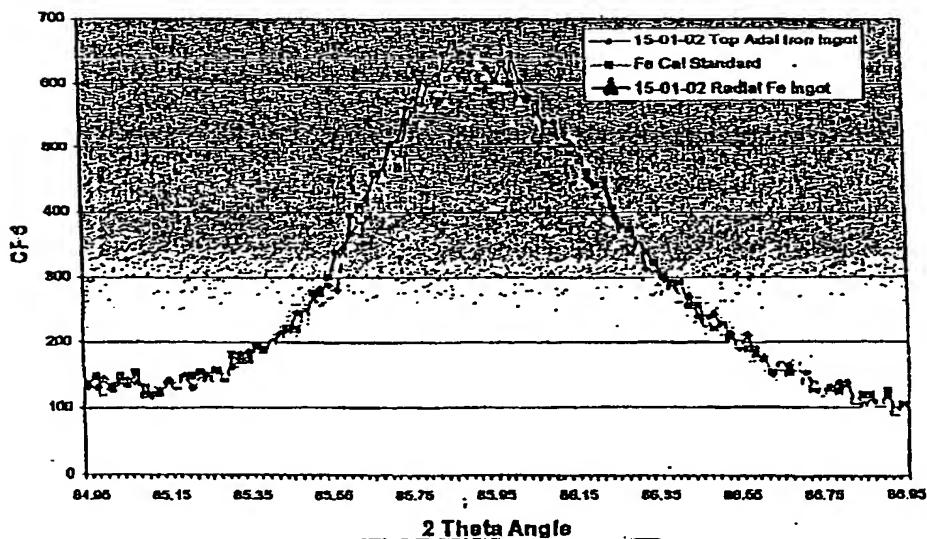


FIG. 49B

Iron Scans: Al and Zr

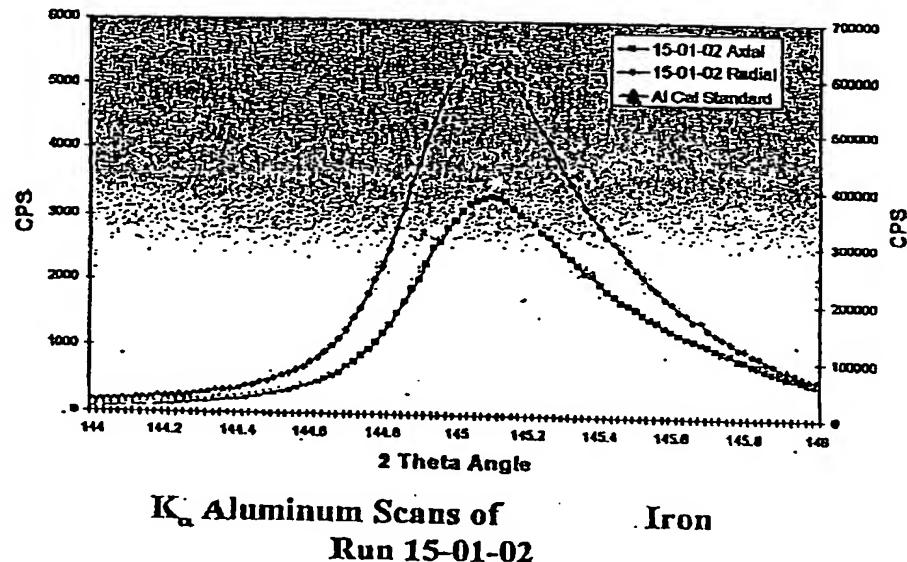


FIG. 50A

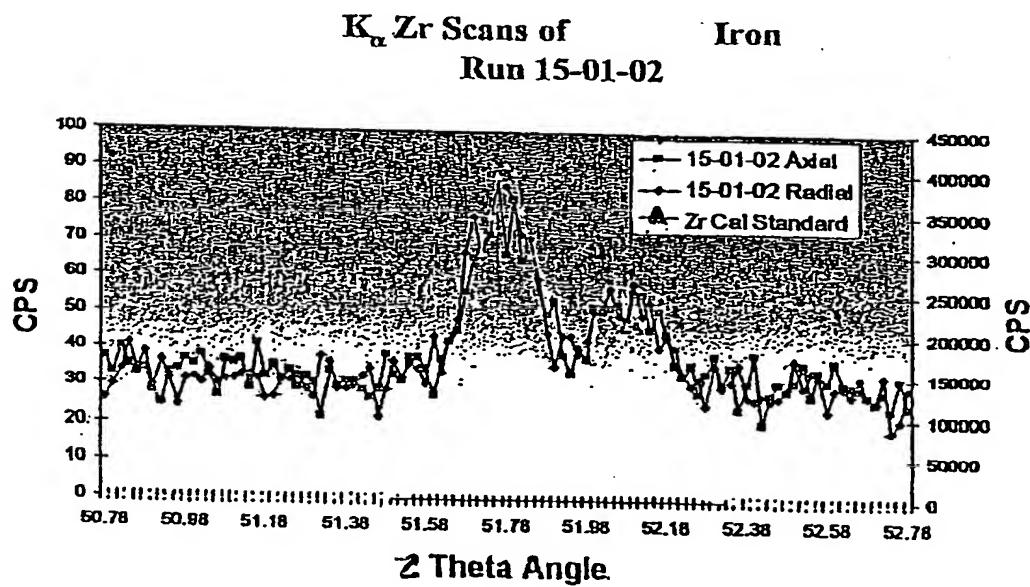


FIG. 50B

Iron Scans: S and Cl

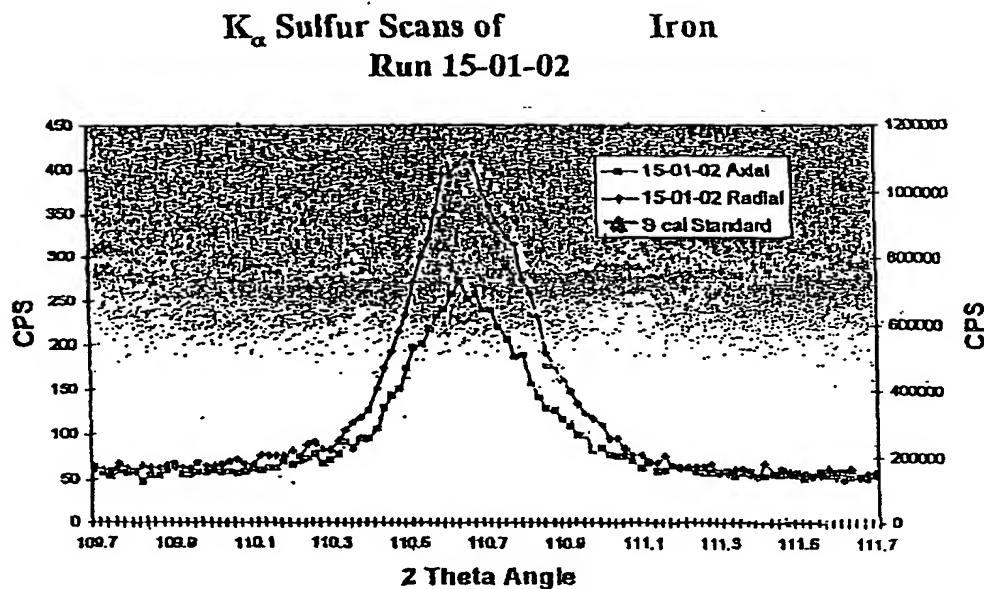


FIG. 51A

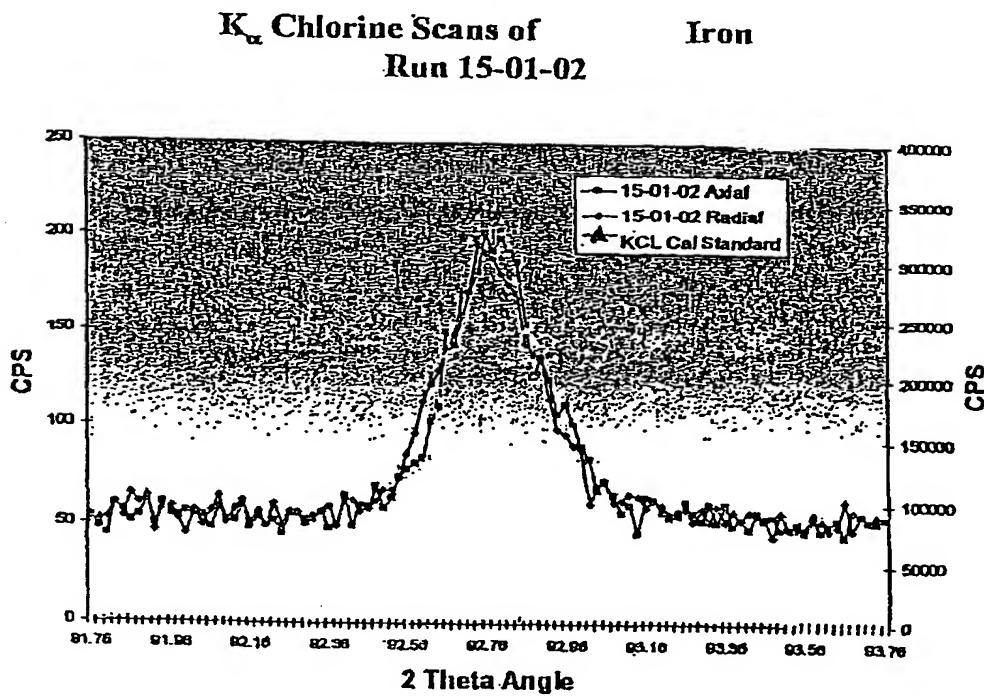


FIG. 51B

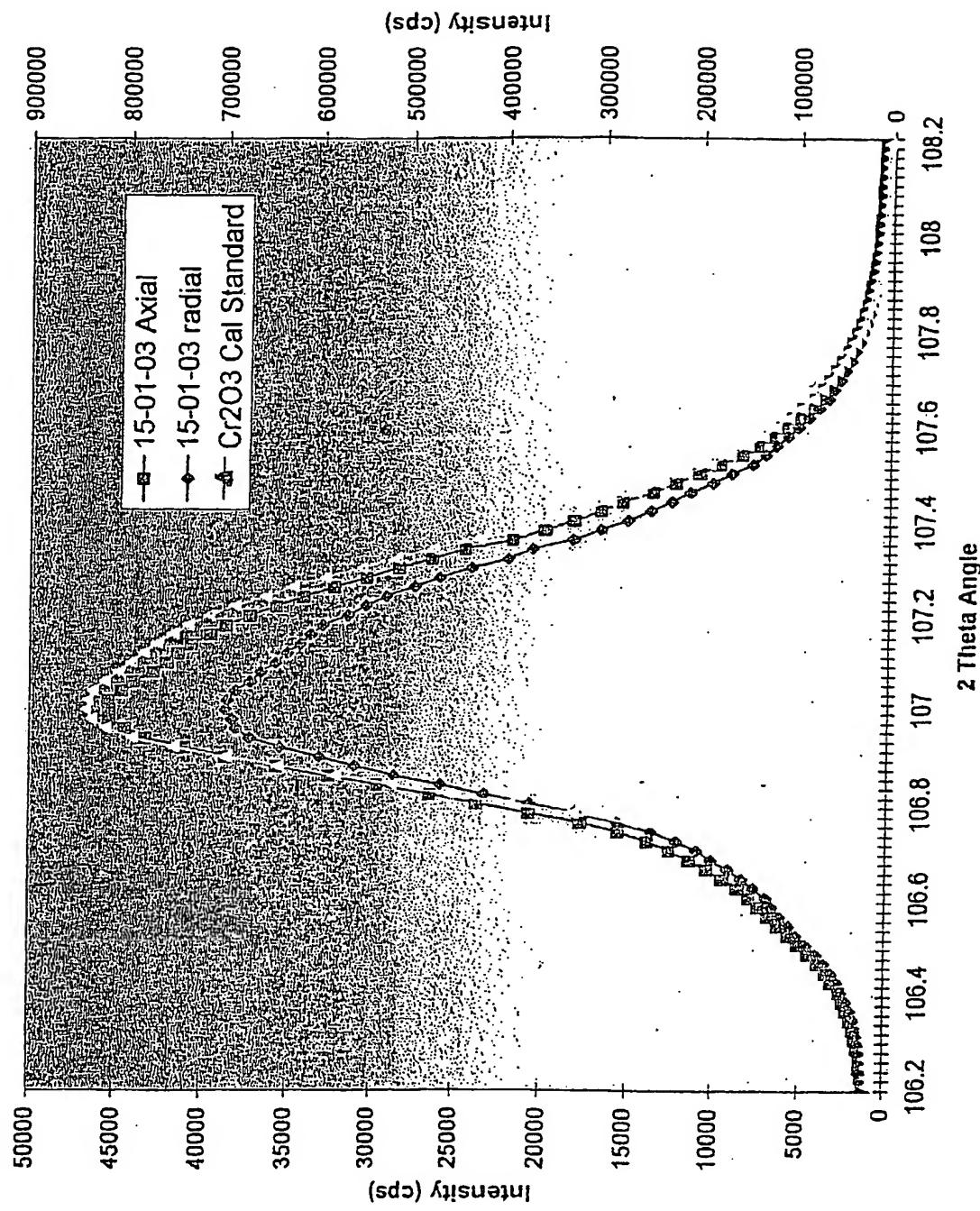
15-01-03 Cr- Axial and Radial Samples vs Cr₂O₃ Cal Standard (LiF220/FPC)

FIG. 52

15-01-03 Fe- Axial and Radial vs Fe Cal Standard (LiF220/FPC)

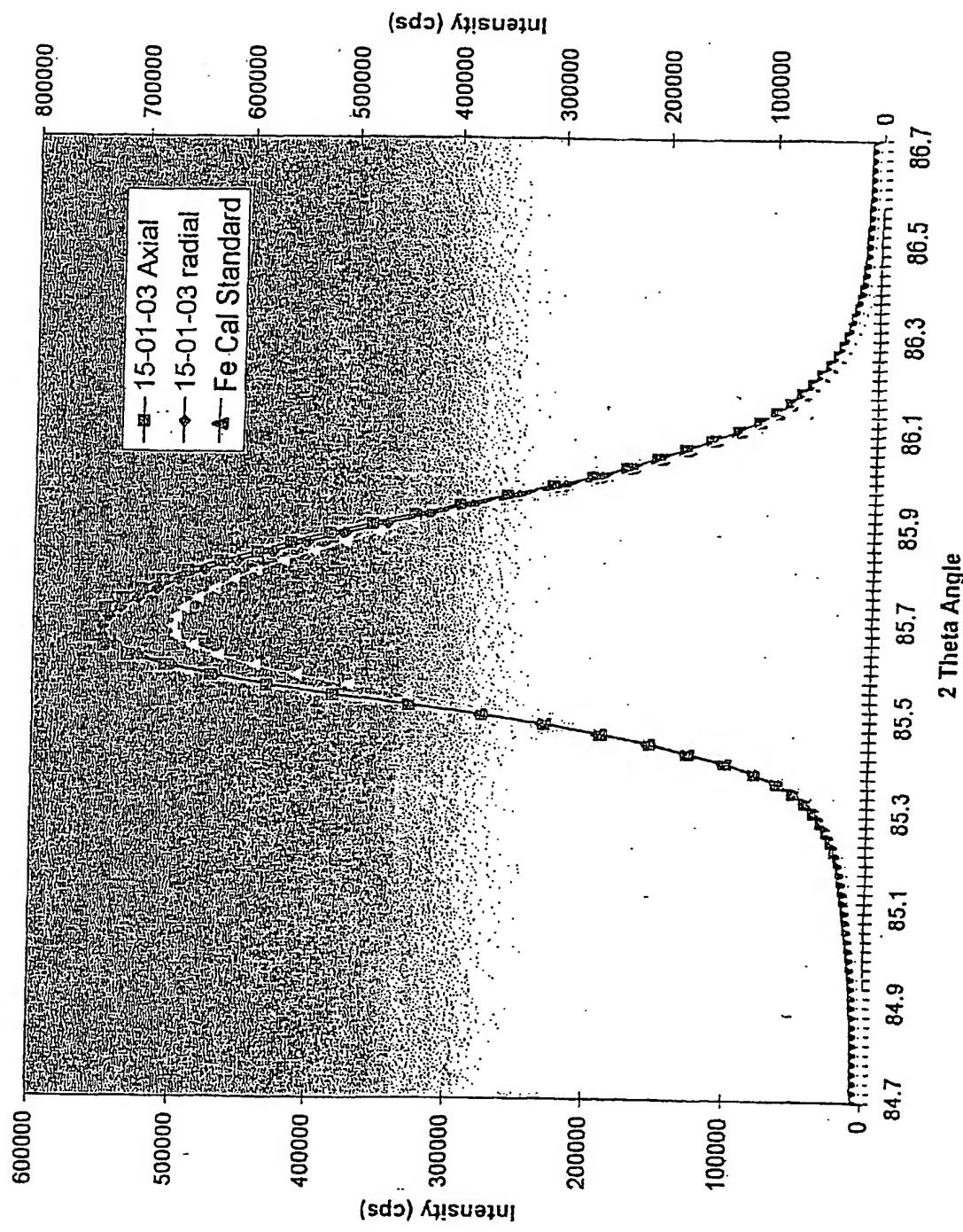


FIG. 53

15-01-03 V- axial and radial samples vs V cal standard (LiF220/FPC)

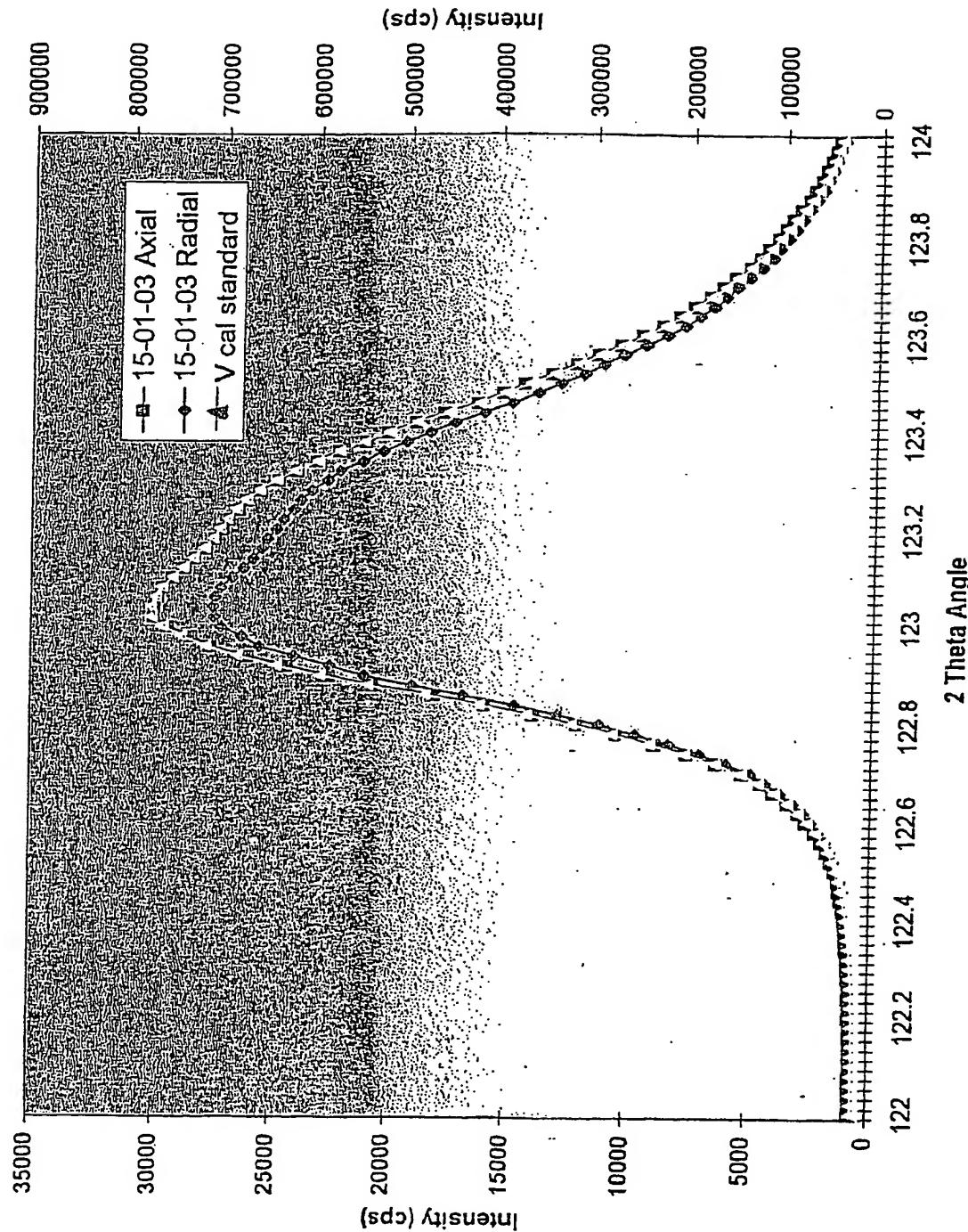


FIG. 54

15-01-03 Mn-Axial and Radial Sample vs Mn Cal Standard (LiF220/FPC)

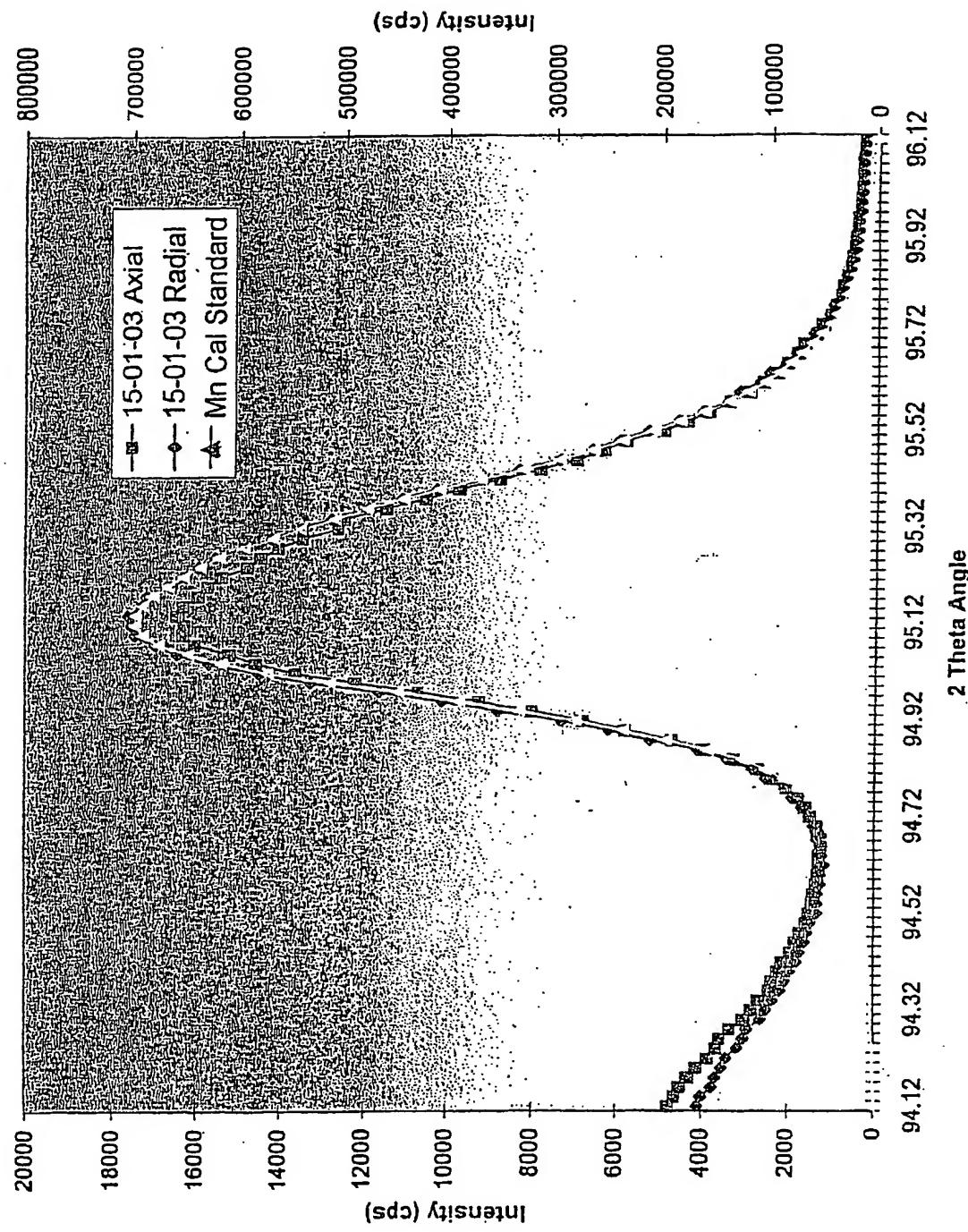


FIG. 55

15-01-03 Cube scans for Sulfur (6 Sides) Ge111/FPC

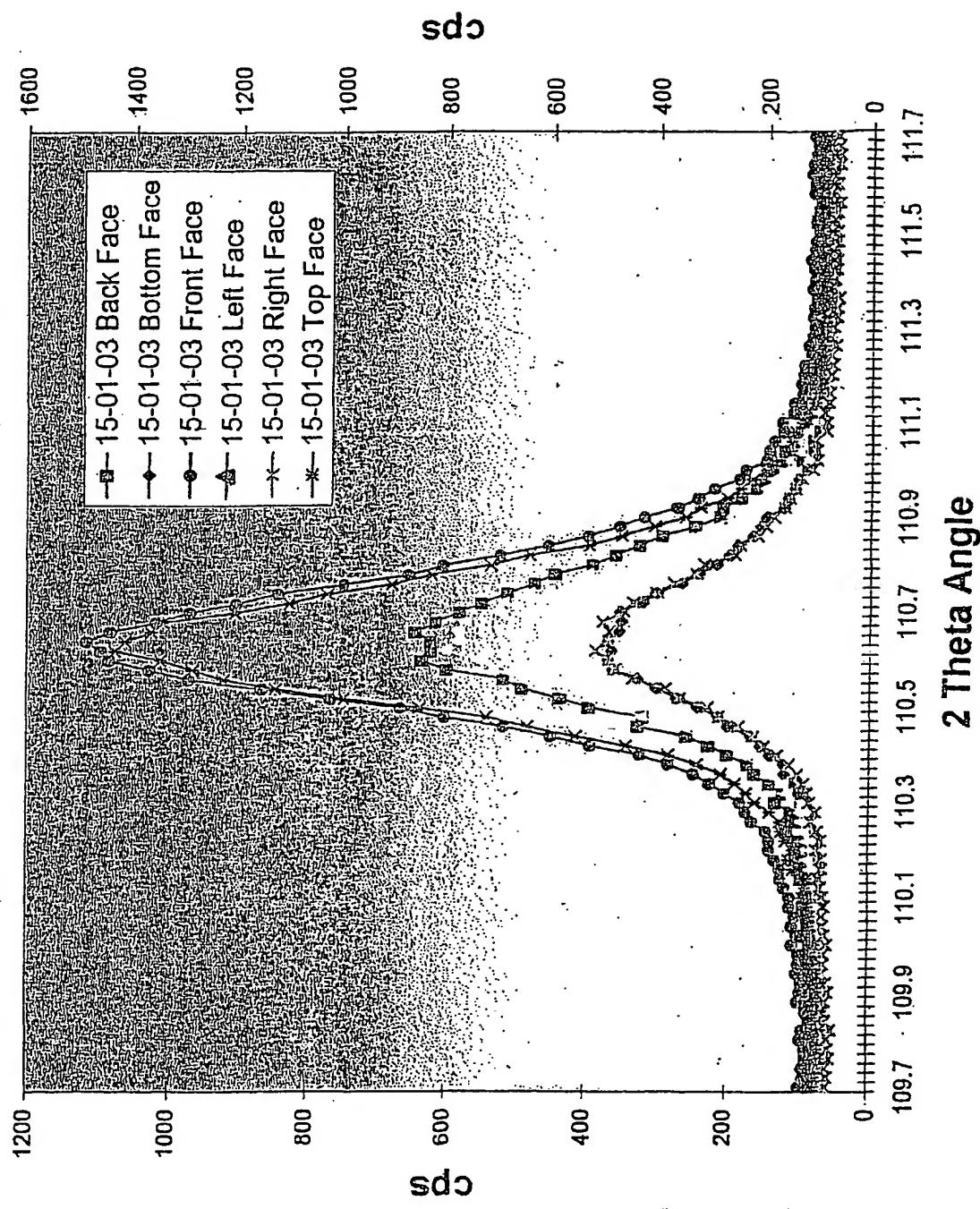


FIG. 56

15-01-04 Ta- Axial and Radial vs Ta Cal Standard

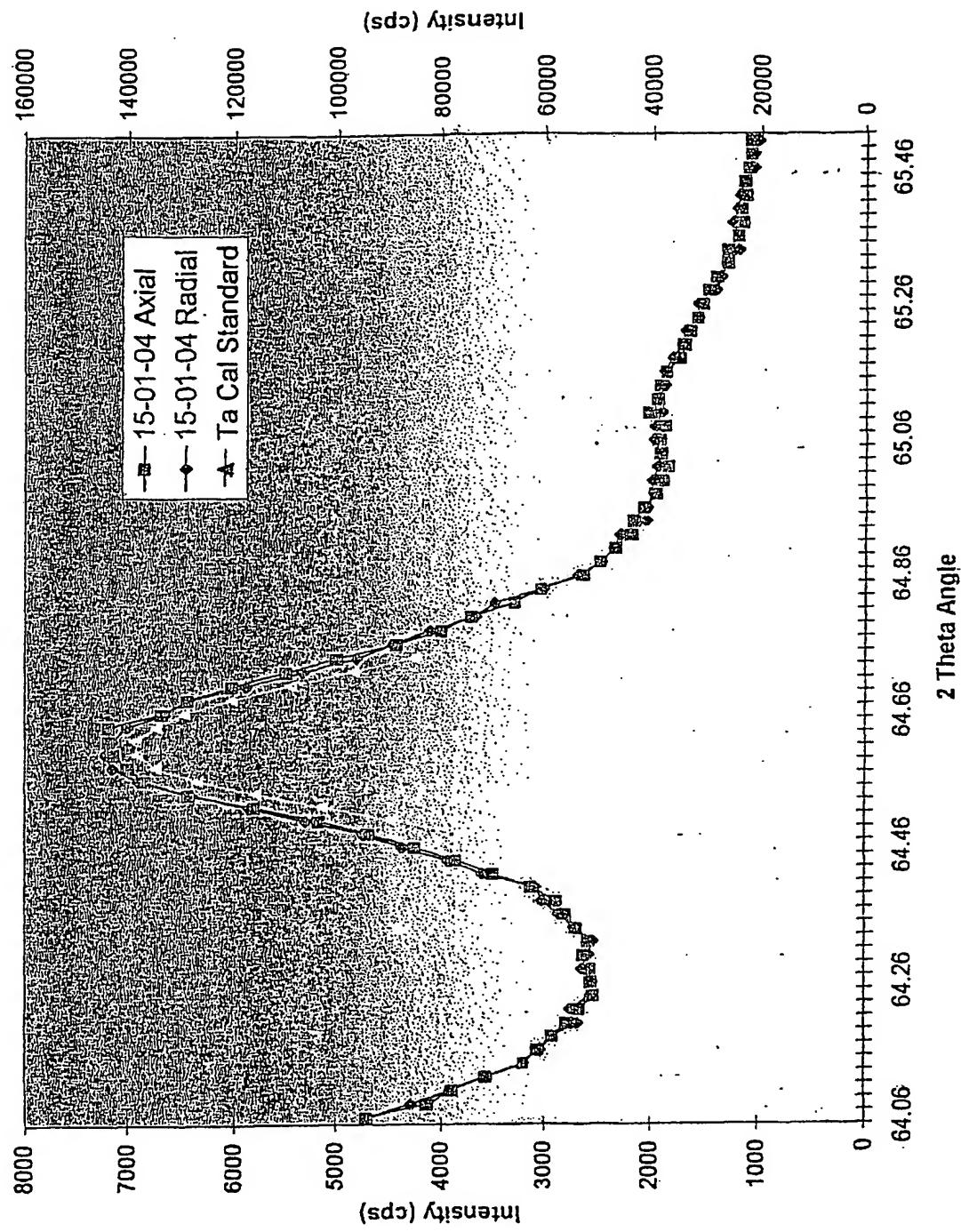


FIG. 57

15-01-04 W- Axial and Radial Samples vs W Cal Standard

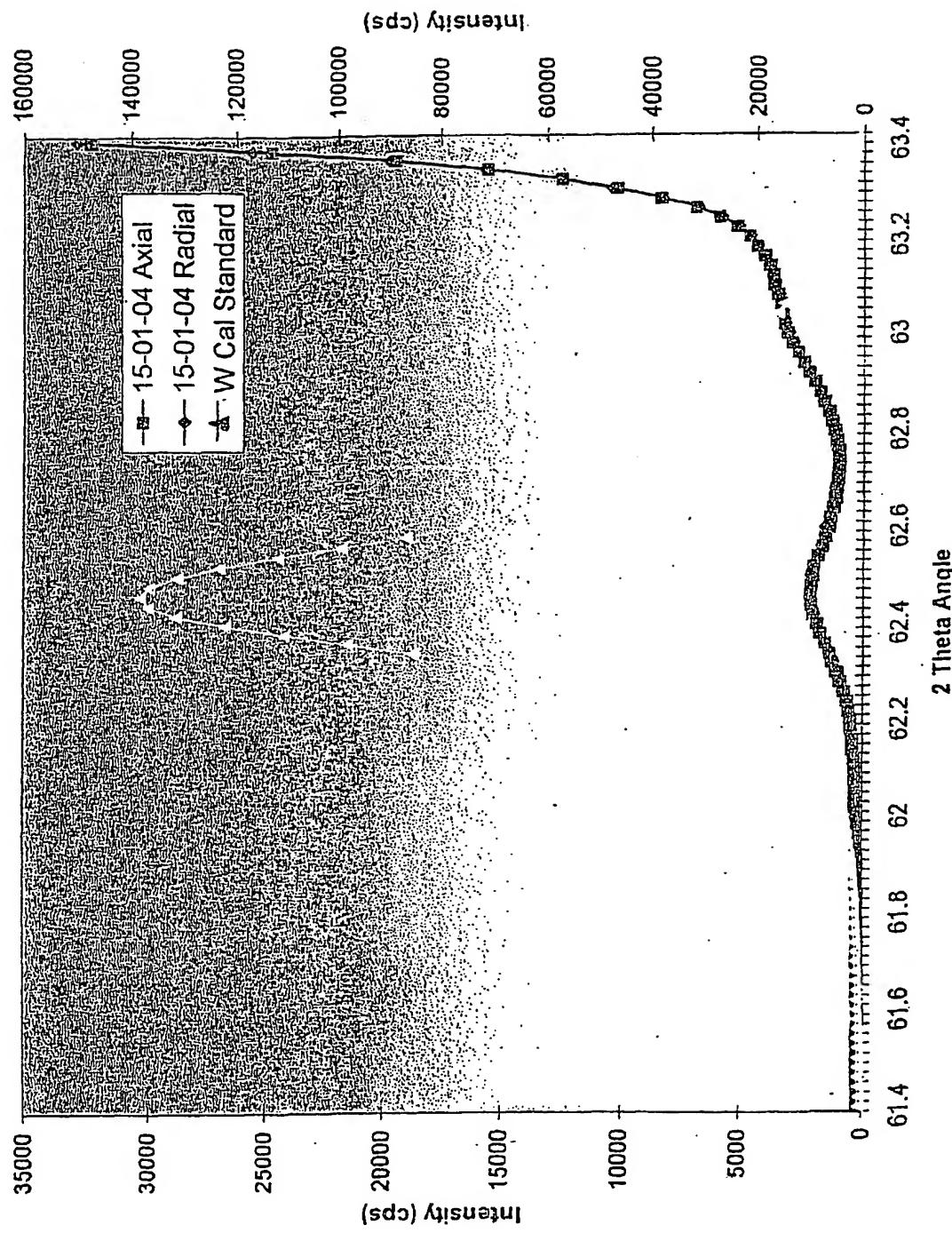


FIG. 58

15-01-04 Hf- Axial and Radial Samples vs Hf Cal Standard (LiF420(SC))

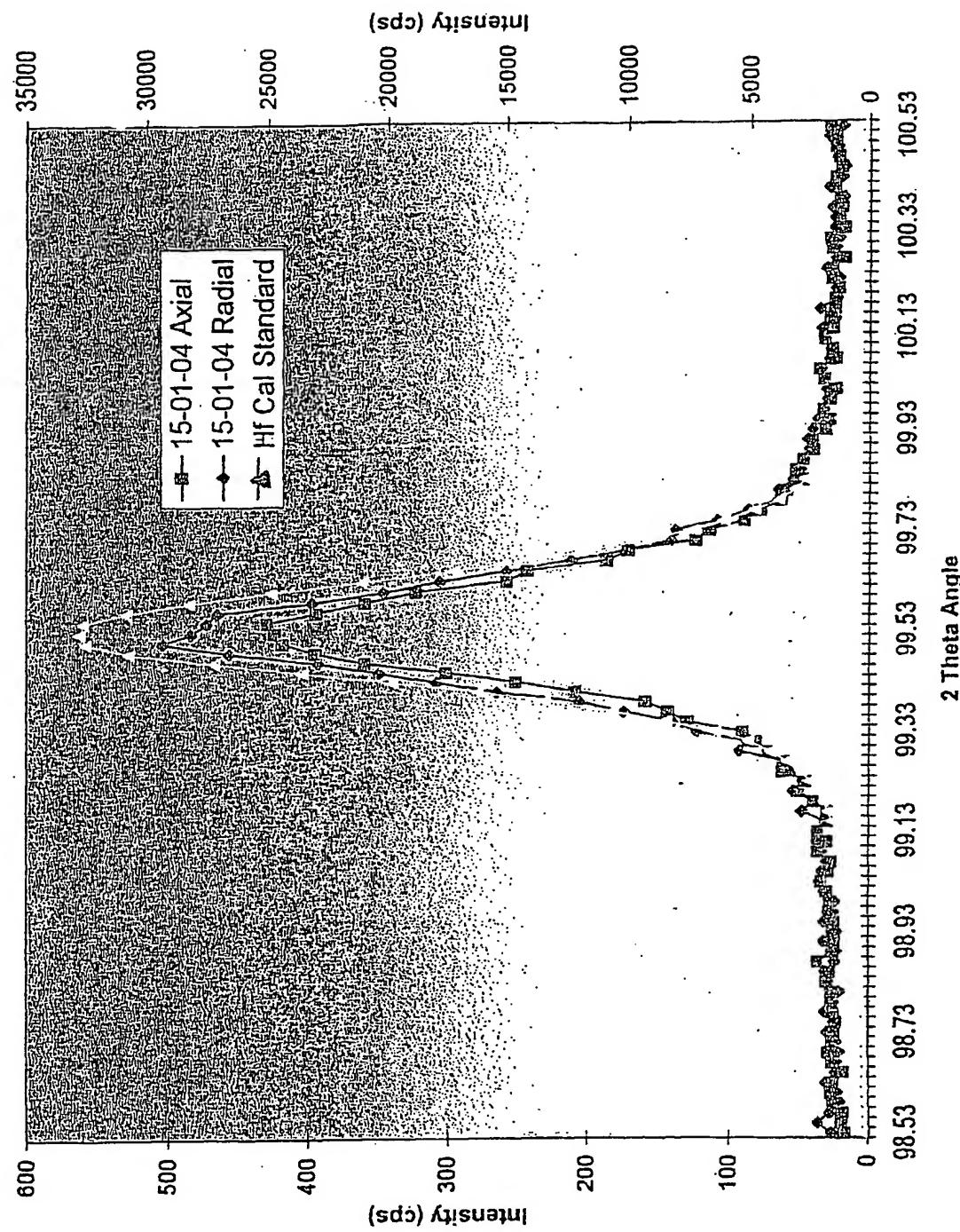


FIG. 59

XRF Scans for Sulfur (Ge111/FPc)
15-01-04 Ni/Hf/W/Ta Ingot

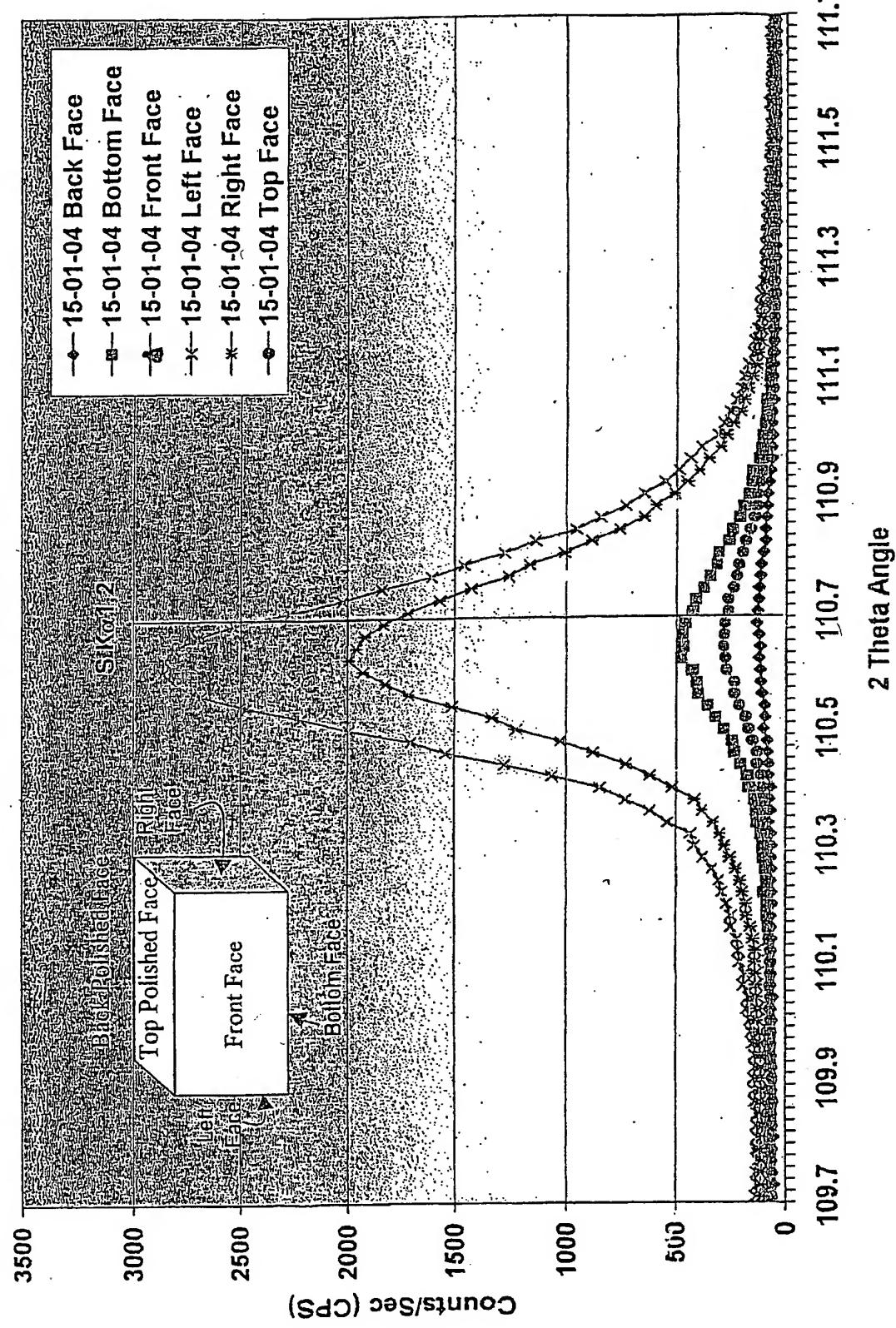


FIG. 60

15-01-04 Ni- Axial and Radial vs Ni Cal Standard (LiF220(FPC))

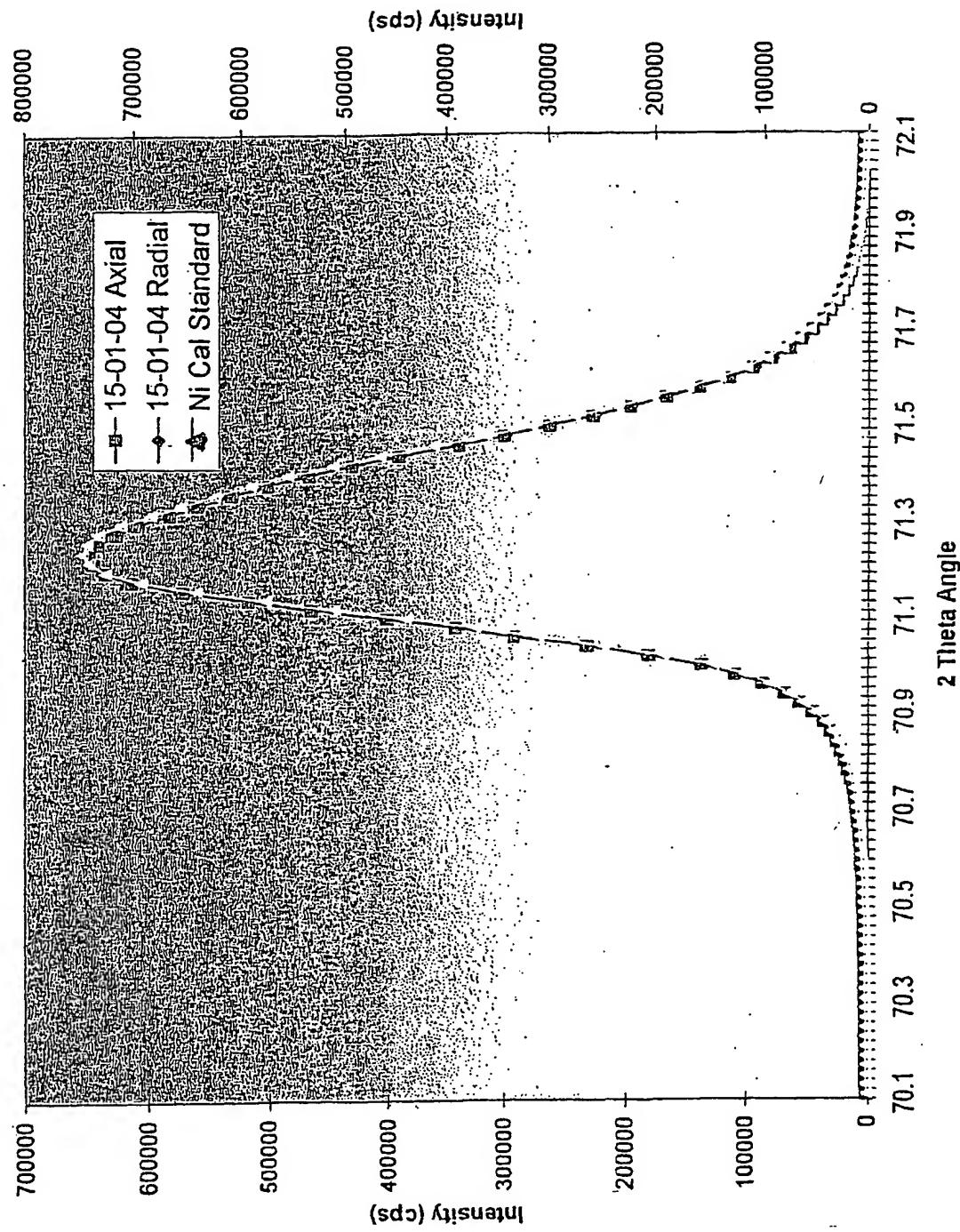


FIG. 61

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER: _____**

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.